

Town of Seekonk, MA Planning Board

02/9/16 7:00 PM Seekonk Town Hall BOS Meeting Room

Type of meeting:

Planning Board Public Hearing, Regular Meeing, and Work Session

Agenda topics – More information on each item can be found on our website – www.seekonk-ma.gov under Departments>Planning>Agenda Items

7:00 PM

Public Hearing on the application of <u>Joseph Vieira</u>, <u>JMV Realy</u>, <u>LLC</u>for deinitive plan approval for <u>Curt Street Extension</u>, four lot subdivison of land located at the end of Curt Street, being AP 21, Lot 23 in the R-2 Zoning district

Application for covenant release and setting of pre-acceptance contingency surety related to the public improvements associated with the <u>Girard Estates</u> definitive subdivision being AP 15 lot 83

Girard Estates LLC

Joseph Vieira

Site plan application for <u>1727 Fall River Avenue</u> being AP 1 lot 20 located in an industrial zoning district

PMI Realty, LLC

Site plan applications for proposed Large Scale Solar Photovoltaic Facility at <u>50 Woodland Avenue</u> being AP 35 lots 23, 24, and 26.

TJA Solar

Approval not Required Plan for land located at <u>242</u> <u>Lincoln St.</u> being AP 16, Lot 28

Edward G. Turnbull Jr.

Work Session on Draft Spring 2016 Zoning By-Law

John Aubin

Amendments

John Aubin

SRPEDD Technical Assistance Grant application

John Aubin

Town Planner Monthly Report

Correspondence

John Aubin

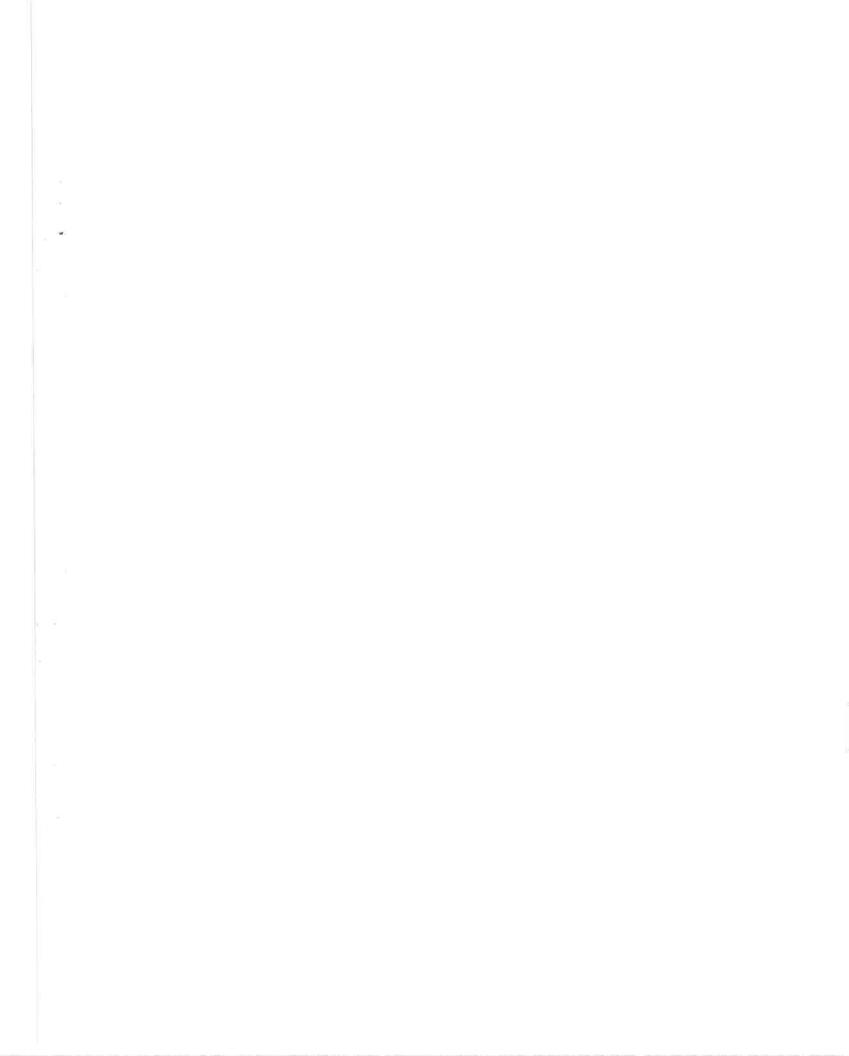
Approval of Minutes:

Adjournment



Planning Board
100 PECK STREET
SEEKONK, MASSACHUSETTS 02771 1-508-336-2961

The attached documentation is a highlight of what is on this agenda. Please note there are additional documents that can be viewed in the Planning Board Office.





Agenda Item: 1

Date: February 9, 2016

Planning Board 100 PECK STREET

100 PECK STREET SEEKONK, MASSACHUSETTS 02771 1-508-336-2961

TO:

Planning Board

FROM: RE: John J. Aubin III, Town Planner

Application of for definitive plan approval for Curt Street

Extension, four lot subdivision of land located near the intersection of Curt Street and Hemlock Street, being AP 21, lot 23 located in

the R-2 zoning district.

APPLICANT: Joseph Viera, JMV Realty, LLC

OWNER: same

LOCATION: Curt Street, AP 21, lot 23

REQUESTED ACTION: Public hearing on definitive plan for a proposed 4 lot

subdivision of land.

APPLICABLE REGULATIONS:

- 1. SECTION V DEFINITIVE PLAN
- 2. SECTION VI PERFORMACE GUARANTEE
- 3. SECTION VII DESIGN STANDARDS
 - Section 7.1 General
- 4. SECTION VIII CONSTRUCTION OF WAYS AND INSTALLATION OF UTILITIES
- 5. SECTION IX ADMINISTRATION

ANALYSIS:

The applicant is before the Planning Board for a public hearing on a requested definitive plan review of Curt Street Extension, a four (4) lot conventional subdivision submitted in accordance with **Section V Definitive Plan**. Preliminary Plan approval for the subdivision was granted on April 14, 2015. During the preliminary review by the Planning Board discussion focused on the following points:

- Drainage in the area;
- The status of the Conservation Commission's review of the proposed wetland crossing;
- Fire safety;
- Drainage and;
- The proposed shared driveway.

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Joseph Viera, JMV Realty, LLC Application for Definitive Plan for Conventional Subdivision February 9, 2016 Page 2 of 4

A copy of the minutes of the Board's discussion of the Preliminary Plan is attached for your review. The proposed shared driveway and wetlands crossing have been approved by the Conservation Commission and are in the process of being installed.

The subject parcel is comprised of 9 acres of land and is currently undeveloped with a mix of mature vegetation (upland and wetland) and a stream running north to south through the central portion of the property. The stream is an unnamed tributary of the Runnins River and an existing storm water drainage outfall from Curt Street is located on the southern bank. The land varies in elevation but generally slopes to the stream from the eastern and western portions of the site. Curt Street currently terminates at a dead-end stub shortly after its intersection with Hemlock Street.

The surrounding area is comprised of residential development with Arcade Avenue and the Turner Reservoir to the west. The surrounding development is situated on lots ranging from about a half acre in size along Sykes and Hemlock to the north and west, to residential development on 1.5 acre lots located to the south and east along Lauren Drive with two larger undeveloped parcels of 6 and 9 acres to the southwest. The entire area is zoned R-2. Two aerials of the existing conditions are attached together with photos from a site visit conducted by this office.

The applicant is proposing a four (4) lot subdivision on the subject parcel accessed via a proposed extension of Curt Street. Two of the lots (subdivision lots 1 and 4) will be accessed directly from Curt Street and two lots (subdivision lots 2 and 3) will be accessed via the shared driveway noted above. Frontage for all lots is provided along the proposed extension of Curt Street. All lots exceed the minimum area requirement with Lots 1 and 4 at approximately .75 of an acre, lot 3 at approximately 2.5 acres, and lot 2 at approximately 4.5 acres.

With regard to the Definitive Subdivision, the public improvements are limited to the proposed extension of Curt Street and associated drainage improvements (two existing catch basins at the current terminus of Curt Street) although it should be noted the drainage design encompasses both the extension of Curt Street and shared driveway. After consultation with the Department of Public Works and Fire Department, the applicant has proposed to terminate Curt Street in a dual "hammerhead" design in order to provide emergency vehicles and snow plows adequate area to accomplish turn around movements within the proposed public right of way. Lots 1 and 4 are proposed to be served by the Seekonk Water District via an extension of the existing 6" water main in Curt Street. Lots 2 and 3 are proposed to be serviced by on-site wells. Individual onsite wastewater treatment systems are proposed for septic wastewater and stormwater is proposed to be handled via the installation of a system of detention basins with sedimentation forebays located within the proposed drainage easement areas.

The application was forwarded to the reviewing departments for comments and was reviewed at the December 24, 2015 and January 28, 2016 Technical Review Committee meetings. During those reviews comments and discussion focused on emergency vehicle access to the eastern portion of the development, identification

Joseph Viera, JMV Realty, LLC Application for Definitive Plan for Conventional Subdivision February 9, 2016 Page 3 of 4

signage for lots 2 and 3, and the installation of the bridge. With regard to outstanding staff comments please note the following:

- 1. The Fire Department has requested the applicant's engineer confirm the compliance of the proposed emergency vehicle turnaround on the shared driveway with the applicable design criteria of the Fire Code and that the driveway turn around area be signed "No Parking";
- 2. The Fire Department has requested the applicant confirm whether a hydrant is to be installed or residential sprinklers for the proposed dwellings on lots 2 and 3:
- 3. The Communications Director has requested that proper address and directional signage be provided at Curt Street, at the start of the shared driveway, directing responding emergency vehicles to lots 2 and 3; and
- 4. The Building Official has requested that certification from a registered engineer be submitted with regard to the adequacy of the bridge, as designed, to carry emergency vehicles and other heavy equipment.

A Peer review of the submitted stormwater drainage system design was conducted by Woodward and Curran. A copy of the comments generated by the initial peer review is attached. The applicant has submitted a revised plan set and drainage analysis in response to the comments however the revisions remain under peer review and any action the Planning Board may take with regard to the application should be conditioned on final resolution of the peer review comments. The proposed septic systems is scheduled for Board of Health review on February 17, 2016. The Health Agent has indicated that no site constraints would preclude the proposed system locations.

No waivers are specifically requested however this should be confirmed by the applicant and project engineer. The Planning Board may wish to solicit testimony from the project engineer as to the conformance of the proposed lots with the general and public Improvement standards set forth in **Sections VII** and **VIII** of the **Rules** and **Regulation Governing the Subdivision of Land**.

It is respectfully requested that the Planning Board make the follow findings of facts with regard to the proposed development based on the evidence presented by the applicant:

- Pursuant to Section V that the applicant has met the requirements for the grant of a Certificate of Approval for the proposed Definitive Plan.
- Pursuant to Section 7.1 General, that the proposed development, as designed and laid out, meets the requirements of public safety including:
 - 1. Safe vehicular travel;
 - 2. Adequate storm drainage;
 - 3. Sewage disposal;
 - 4. Water supply;

Joseph Viera, JMV Realty, LLC Application for Definitive Plan for Conventional Subdivision February 9, 2016 Page 4 of 4

- 5. Utilities: and
- 6. Precautions against natural disaster
- That the proposed Definitive Plan otherwise meets the requirements of the Rules and Regulations Governing the Subdivision of Land in Seekonk Massachusetts and Sections 81k through 81GG of Chapter 41 of the General Law.

The following conditions are recommended should the Planning Board deem approval of the application appropriate:

- 1. Final Board of Health approval of the proposed wastewater treatment systems;
- 2. Final approval of all proposed utility extensions by the Seekonk Water District, Columbia Gas, National Grid and any other utility provider as appropriate;
- 3. The applicant's engineer shall confirm the compliance of the proposed emergency vehicle turnaround on the shared driveway with the applicable design criteria of the Fire Code;
- 4. The turnaround area on the eastern portion of the shared driveway shall be marked "No Parking";
- 5. Proper address and directional signage is to be provided at the start of the shared driveway at Curt Street directing responding emergency vehicles to subdivision lots 2 and 3; and
- 6. Certification from a registered engineer shall be submitted to the Building Official with regard to the adequacy of the bridge, as designed and installed, to carry emergency vehicles and other heavy equipment;
- 7. Final resolution of any outstanding comments on the design of the stormwater management system between the Planning Board's consulting engineer and the project engineer; and
- 8. Any such other conditions the Planning Board may deem necessary to ensure compliance of the application with the applicable provisions of the Rules and Regulations Governing the Subdivision of Land in the Town of Seekonk.

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OF SEEKONA.	TOWN OF SEEKONK FORM	C	
	PLANNING BOARD 100 PECK STREET, SEEKONK, MA 02771 1-508-336-2961		
	APPLICATION FOR APPROVAL OF DEFINITIVE PLAN		•
Date: JULY 23,	, 2015		
Applicant NameJOS	SEPH VIEIRA Phone No. (508) 962-6749		
Address29	9 PROVIDENCE STREET, REHOBOTH, MA 02769		
Plat No. 21	Lot No. 23 Present Zoning R-2		
1. Deed of property	recorded in Bristol County Registry, Book 22145 Page 269 A. GORODETSKY, P. E.		
2. Name of Engineer	r or SurveyorMass Lic. No. 380/1		
Address422 N	ORTH MAIIN ST FALL RIVER MA 02720		
3. Location and Lega Vacant land ea	l Description of Property (Include Public and Private Ways Bounding Property) st of Curt St dead end	=	
· ·	\$ 100 miles 100	-3	
4-11-11-11-11-11-11-11-11-11-11-11-11-11		-	
	Checklist Form C		
x	Application Form (2 x) Please note: both copies must be originals, 1 copy for Planning, 1 copy for Town Clerk.	ξ	
X	Application fee \$500 per subdivision and \$250 per proposed lot, Ck# /755 (Payable to the Town of Seekonk)	192	
х	Certificate of Good Standing, completed and signed by Tax Collector.		
x	One copy of "Certified List of Abutters", Form G and the original drawing of the Definitive Plan.		
	Plans received in CD or DVD format after approval.		
	Consultant Review Fees – check made payable to the Town of Seekonk – fee to be determined after submission of application. Payment must be received prior to review (submission complete once received).		
Rev 8/24/2010	.1		

	Inspection Fees – check made payable to the Town of Seekonk – fee to be determined after submission of application. Payment must be received prior to endorsement of Subdivision Plan.			
x	Plans received (10) prints, (1) 11" X 17", (see 5.3 of rules & regulations) Six (6) upon approval and (1) mylar.			
x	Stormwater Management Plan and Erosion & Sedimentation Control Plan – per Massachusetts Stormwater Standards as stated in DEP Stormwater Management Handbook Volumes 1 & 2; and Categories 20B and 20C of the Seekonk Town Bylaws			
x	Applicant responsible for forwarding (1) copy of Plans and Drainage Report to Consulting and Inspecting Engineers. Planning Office will advise who the Consulting & Inspecting Engineers are once application is received.			
To the Planning Board				
agrees to abide by the I	y applies for the approval of said DEFINITIVE PLAN by the Board, and in furtherance thereof hereby Board's Rules and Regulations. The undersigned hereby further covenants and agrees with the Town of roval of said DEFINITIVE PLAN by the Board.			
Received by Planning	Board or Town Clerk:			
Date:	*Signature of Applicant			
Time:				
*Signature Action Testa Address of Applicant 299 PROVISENCE ST				
	RENDBOTH MA			
	*Signature of Owner or Notarized letter (if applicable)			
	Address of Owner			

2 Rev 8/24/2010

k – fee to be received prior to	
gulations)	
control Plan – per water Management Seekonk Town	
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1/2	
99 PROVIDENCE ST	_
MA	
Notarized letter (if applicable)	
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Planning Board

100 PECK STREET SEEKONK, MASSACHUSETTS 02771 1-508-336-2961

Date: September 9, 2015

Mr. Joseph Vieira 299 Providence Street Rehoboth, MA 02769

Re: Application of <u>Joseph Vieira</u> for definitive plan approval for <u>Curt Street Extension</u>, four lot subdivision of land located at the intersection of Curt Street and Sykes Road, being AP 21, lot 23 located in the R-2 zoning district.

Dear Mr. Vieira,

I am writing regarding the above referenced definitive subdivision plan application in order to transmit to you the comments generated to date by the staff and peer reviews of the project and to discuss the scheduling of the public hearing on the matter. Attached please find copies of correspondence from the Conservation Commission, Board of Health, and Woodard and Curran pertaining to the proposed definitive plan and stormwater management design. Please have Mr. Gorodetsky review the comments and revise or otherwise respond to the issues raised and inquiries made in the comments.

Regarding the public hearing, currently tentatively scheduled for October 11, 2015, I have two main concerns around our ability to get the review and revision process far enough along to allow for the Planning Board to approve the definitive plan in October.

The first concern is based on the fact that Mr. Gorodetsky is not currently licensed as a Title Five design engineer by the Seekonk Board of Health, as such, it is unlikely that the Board of Health will review and certify the proposed lots as suitable for the location of single family dwellings to be served by individual septic systems prior to October 11, 2015. Section 5.7 Review by Board of Health as to the Suitability of the Land of the Rules and Regulations Governing the subdivision of Land in Seekonk Massachusetts gives the Board of Health 45 days to review the

proposed definitive plan but fails to indicate the implications of the Board of Health's failure to act in that timeframe nor how the Planning Board is to construe such a lapse regarding the ultimate approval or denial of an application for definitive plan approval or suitability of land for septic systems. My specific concern regarding your application would be that, lacking a determination from the Board of Health, the Planning Board could potentially find the lack of documentation of suitability of the proposed lots for septic system as grounds for denial of the application. Of course the Planning Board could also grant approval of the definitive plan subject to review and approval of the proposed septic systems by the Board of Health or request a continuance until the site suitability could be documented by the Board of Health. We could speculate as to which of these options or some other alternative the Planning Board may pursue regarding your application; however it would be an exercise in speculation.

The second concern is based on the voluminous nature of comments on the drainage design and Mr. Gordetsky's ability to revise and resubmit a response to the comments in sufficient time to allow Woodard and Curran to review the responses prior to the public hearing. I would also note that the current finding of the reviewing engineer that the submitted design fails to fully comply with the Town of Seekonk's rules and regulations would be clear grounds for denial of the application, as it currently stands, by the Planning Board.

Based on the foregoing and your consideration thereof, I would ask that you inform this office no later than September 16, 2015 as to whether you would like to proceed with the public hearing on October 11, 2015 or enter a continuance of the matter to allow time for the above and attached issues to be adequately addressed.

Sincerely,

John J. Aubin III Town Planner Town of Seekonk

Cc Beth Hallal Bernadette DeBlander

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COMMITMENT & INTEGRITY DRIVE RESULTS

95 Cedar Street | Suite 100 Providence, Rhode Island 02903 www.woodardcurran.com

T 800.985.7897 T 401.273.1007 F 401.273.5087



Via Electronic Mail

September 3, 2015

Planning Board Town of Seekonk 100 Peck Street Seekonk, Massachusetts 02771

Re: Peer Review Services for Curt Street Extension

Dear Members of the Planning Board:

Woodard & Curran has completed our technical and regulatory review of the Application submittals for the proposed extension of Curt Street, as proposed by Joseph Vieira (the Applicant). The proposed four (4) lot residential subdivision (the Project) extends easterly from the existing dead end of Curt Street and approximately 300 feet east of Hemlock Street. The property is within the "R-2" Zone District, and under existing conditions, comprises 8.73 acres of undeveloped wooded land. A perennial stream that outlets to the Runnins River also flows across the site from north to south.

The Application submittals were reviewed for compliance with the applicable sections of the following:

- Rules and Regulations Governing the Subdivision of Land in Seekonk, Massachusetts (as amended March 12, 2013)
 - Section V Definitive Plan (Sections 5.3 through 5.5 only)
 - Section VII Design Standards
 - Section VIII Construction of Ways and Installation of Utilities
- Zoning By-Laws of the Town of Seekonk, Massachusetts (reprinted March 27, 2015)
 - Section 5 Dimensional Regulations
 - Section 7 General Provisions
 - o Section 8 Development and Design Standards (Sections 8.3 and 8.10 only)
- Category 20B Stormwater Management (Construction)
- Category 20C Stormwater Management (Post-Construction)
 - Massachusetts Stormwater Handbook

DOCUMENTS REVIEWED

The original Application submittals included the following:

- <u>Plan Set:</u> entitled "Definitive Subdivision Plan, Curt Street Extension," prepared by Gorodetsky Engineering, LLC, dated July 23, 2015.
- Stormwater Management Plan: entitled "Stormwater Management Plan to Accompany Curt Street Extension Definitive Subdivision Plan," prepared by Gorodetsky Engineering, LLC, dated July 23, 2015.
- Drainage Analysis: entitled "Curt Street Extension, Seekonk, MA Drainage Analysis," prepared by Gorodetsky Engineering, LLC, dated July 23, 2015.

W.	



FINDINGS & RECOMMENDATIONS

Based on the review of the above referenced documentation, Woodard & Curran offers the following comments

ZONING BY-LAWS

 Woodard & Curran – September 1, 2015: The Applicant did not depict a 100-foot square on each proposed lot. This requirement promotes geometric lot layouts.

Recommendation: The Applicant should depict a 100-foot square in accordance with Section 5.1.4. Footnote 5.

RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND

- Woodard & Curran September 1, 2015: Features of the Applicant's typical roadway crosssection do not appear to comply with the Town's requirements:
 - a. The cross-section indicates a four (4) inch loam and seed, which does not comply with the six (6) inch requirement.
 - b. The cross-section does not include a sidewalk.

<u>Recommendation:</u> The Applicant should update the typical roadway cross-section to comply with Section 7.2.2.6. Further loam and seed requirements are outlined in Section 8.11, and further sidewalk requirements are outlined in Sections 7.3 and 8.7.

- 3. Woodard & Curran September 1, 2015: The Applicant has not indicated if the Seekonk Fire Department (FD) and the Department of Public Works (DPW) have reviewed the proposed dead-end configuration.
 - <u>Recommendation:</u> The Applicant should provide documentation that outlines the FD's and DPW's findings relative to the dead-end configuration. This documentation is required by Section 7.2.4.
- Woodard & Curran September 1, 2015: The easements for Swales 1 and 2 do not appear to meet the dimensional requirements of Section 7.4.1.
 - Recommendation: The Applicant should review Section 7.4.1 and update the geometry of the easements.
- 5. Woodard & Curran September 1, 2015: The Applicant has proposed a bridge crossing but has not included an easement for this crossing.
 - Recommendation: The Applicant should provide an easement for the bridge crossing in accordance with Section 7.4.2.
- 6. <u>Woodard & Curran September 1, 2015:</u> The Applicant has not indicated if the Water District has reviewed the proposed water main configuration.
 - Recommendation: The Applicant should provide documentation that reflects the Water District's review in accordance with Sections 7.5 and 8.2.1.



 Woodard & Curran - September 1, 2015: The Applicant has not indicated if the Fire Department has reviewed the proposed fire protection measures, specifically related to the location of the firebox and type of fire suppression infrastructure.

Recommendation: The Applicant should coordinate with the Fire Department and provide documentation that outlines the Fire Department's review in accordance with Sections 7.5.1 and 8.3.

8. Woodard & Curran – September 1, 2015: The Applicant has not provided hydraulic calculations to demonstrate that the proposed bridge crossing and closed conduit drainage systems have been designed to convey flows from the 100- and 25-year rainfall events, respectively.

<u>Recommendation:</u> The Applicant should provide hydraulic calculations to demonstrate compliance with Section 7.6.

- Woodard & Curran September 1, 2015: The Applicant requests a waiver for Section 8.2.2.2, which requires electrical and telephone conduits to be placed underground. Woodard & Curran has no comment relative to the Applicant's proposal and provides this item for informational purposes to the Planning Board.
- 10. <u>Woodard & Curran September 1, 2015:</u> The Applicant has not indicated the type of property boundary monument that is proposed for the subdivision.

Recommendation: The Applicant should indicate the type of property boundary monument in accordance with Section 8.9.1.

CATEGORY 20C - STORMWATER MANAGEMENT (POST CONSTRUCTION)

11. Woodard & Curran – September 1, 2015: The Applicant delineated stormwater easements for the stormwater infrastructure but did not include access easements to the stormwater infrastructure. These easements are necessary to gain access to the infrastructure.

Recommendation: The Applicant should include access easements to demonstrate compliance with Section 8.C.1.a.

12. <u>Woodard & Curran – September 1, 2015:</u> The Applicant did not provide the estimated seasonal high groundwater elevation in areas to be used for stormwater retention, detention, and infiltration. This information is important to understand the potential influence of groundwater on these measures.

Recommendation: The Applicant should include the estimated seasonal high groundwater elevation in accordance with Section 7.A.10.

13. Woodard & Curran — September 1, 2015: The Applicant did not delineate the stormwater flow path for Post-Development Subcatchment "W" on the Stormwater Management Plan. This information is necessary to evaluate the peak rate of runoff from this watershed.

Recommendation: The Applicant should delineate the Post-Development Subcatchment "W" stormwater flow path in accordance with Section 7.A.12.

Town of Seekonk (229366.00) 3 September 3, 2015



- 14. Woodard & Curran September 1, 2015: There appears to be missing information relative to the proposed drainage system.
 - Cross-section "C" for Detention Area "A" appears to be missing from the Plan Set.
 - b. Various cross-sections do not include an x- and/or y-axis scale, which is necessary to review the constructability of the respective stormwater measure.
 - A detail of the proposed bridge crossing has not included.
 - d. Hydraulic calculations (including velocity) for the proposed infrastructure (i.e., subsurface closed conduits, bridge crossing, swales, etc.) have not been provided. This information is important to evaluate this infrastructure's capacity to convey future flows from contributing areas.
 - e. Spot elevations west of Water Quality Swale "B" have not been included, which are necessary to evaluate how the swale will overtop during a 100-year rainfall event.
 - f. The catch basin detail appears to conform to the requirements of the Rhode Island Department of Transportation, and not the Massachusetts Highway Construction and Traffic Standard Details (see Section 8.4.3 of the Rules & Regulations Governing the Subdivision of Land). The Applicant should revise the detail accordingly.
 - g. The proposed dry water quality swales and detention basin are designed to have standing water; however, these measures are meant to empty following a rainfall event.

Recommendation: The Applicant should provide the missing information and address the comments noted above in accordance with Section 7.A.13.

- 15. Woodard & Curran September 1, 2015: Woodard & Curran cannot compare the pre- and post-development peak discharge rates for the following reasons:
 - a. The Applicant included multiple nodes to model the same brook in HydroCAD, which does not accurately represent its attenuation capacity. Therefore, the brook should be one node. This approach will accurately estimate the pre- and post-development peak discharge rates through the brook.
 - b. The Applicant has included overflow nodes in HydroCAD, but the physical geometry associated with these nodes is not clearly depicted on the Stormwater Management Plan. Since these nodes directly impact the pre- and postdevelopment peak discharge rates, additional information is necessary to support that these nodes have been developed appropriately in HydroCAD.

Recommendation: The Applicant should address the aforementioned comments to comply with Section 7.B.1.



16. Woodard & Curran – September 1, 2015: The Applicant proposes to use the dry water quality swales and the detention basin as recharge measures; however, the Stormwater Handbook does not list these measures as recharge measures since they are not intended to infiltrate into the underlying soil.

Recommendation: The Applicant should provide an infiltration measure that meets the recharge requirement outlined in Section 7.B.3. The infiltration measure must comply with the requirements of the Stormwater Handbook, including those requirements related to subsurface soil investigations in the footprint of the infiltration measure.

17. Woodard & Curran – September 1, 2015: The Applicant proposes to use the dry water quality swales and the detention basin as recharge measures; however, the Stormwater Handbook does not list these measures as recharge measures since they are not intended to infiltrate into the underlying soil.

Recommendation: The Applicant should provide an infiltration measure that meets the recharge requirement outlined in Section 7.B.3. The infiltration measure must comply with the requirements of the Stormwater Handbook, including those requirements related to subsurface soil investigations in the footprint of the infiltration measure.

CONCLUSION

Woodard & Curran found that the proposed project does not fully comply with the aforementioned Town of Seekonk rules and regulations. The Applicant should address the comments and recommendations provided in this letter. Please feel free to call the undersigned below if you have any further questions or comments relative to this matter.

Sincerely,

WOODARD & CURRAN INC.

Jeffery Stearns, PE Vice President Mark Pereira, PE Project Engineer

DEFINITIVE SUBDIVISION PLAN CURT ST EXTENSION

SEEKONK, MASSACHUSETTS

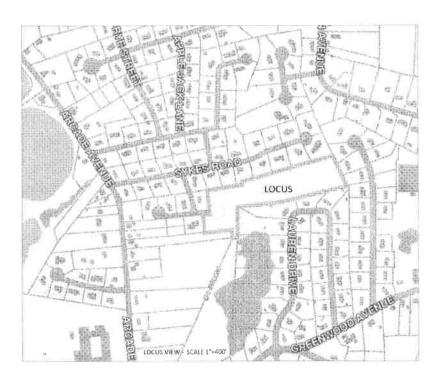
APPLICANT AND OWNER: JOSEPH VIEIRA



FLARED END PROP. BOUND BOUND FOUND

WATER GATE WATER BLOW-OFF WATER SERVICE SHOT-FLARED END DRAINAGE MANHOLE CATCH BASIN DROP INLET GUTTER INLET CURB INLET

INVERT
SURFACE CURVE NUMBER (HYDROLOGICAL COEFFICIENT)



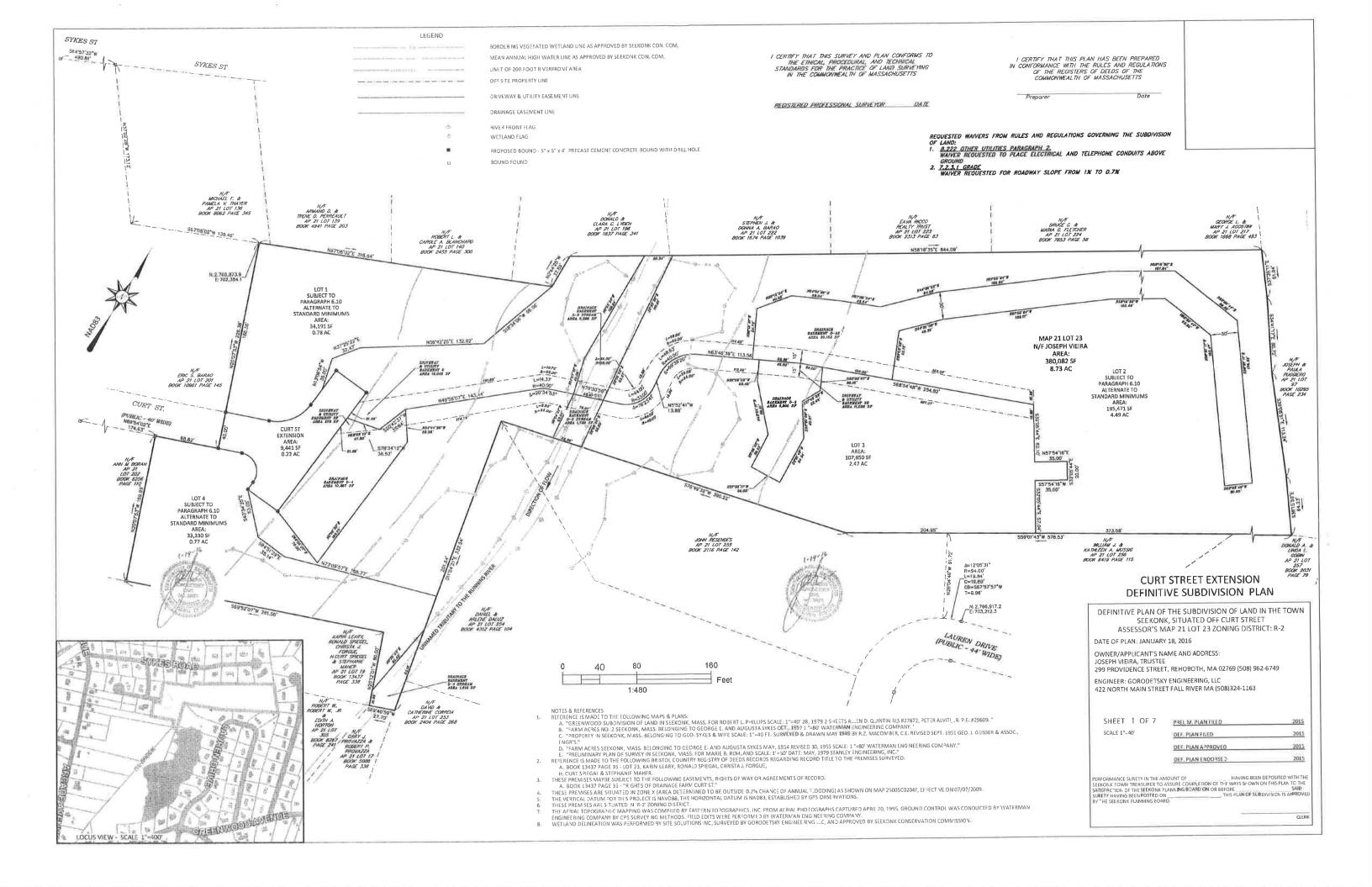
INDEX	SHEETS
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DRAINAGE CONSTRUCTION PLAN	3
HAMMER-HEAD GRADING PLAN & TYPICAL SECTION SOIL PROFILES	4
TYPICAL SECTIONS & DETAILS	5
EROSION CONTROL PLAN	6
WETLAND ALTERATION, REPLICATION & STREAM CROSSING PLAN	7

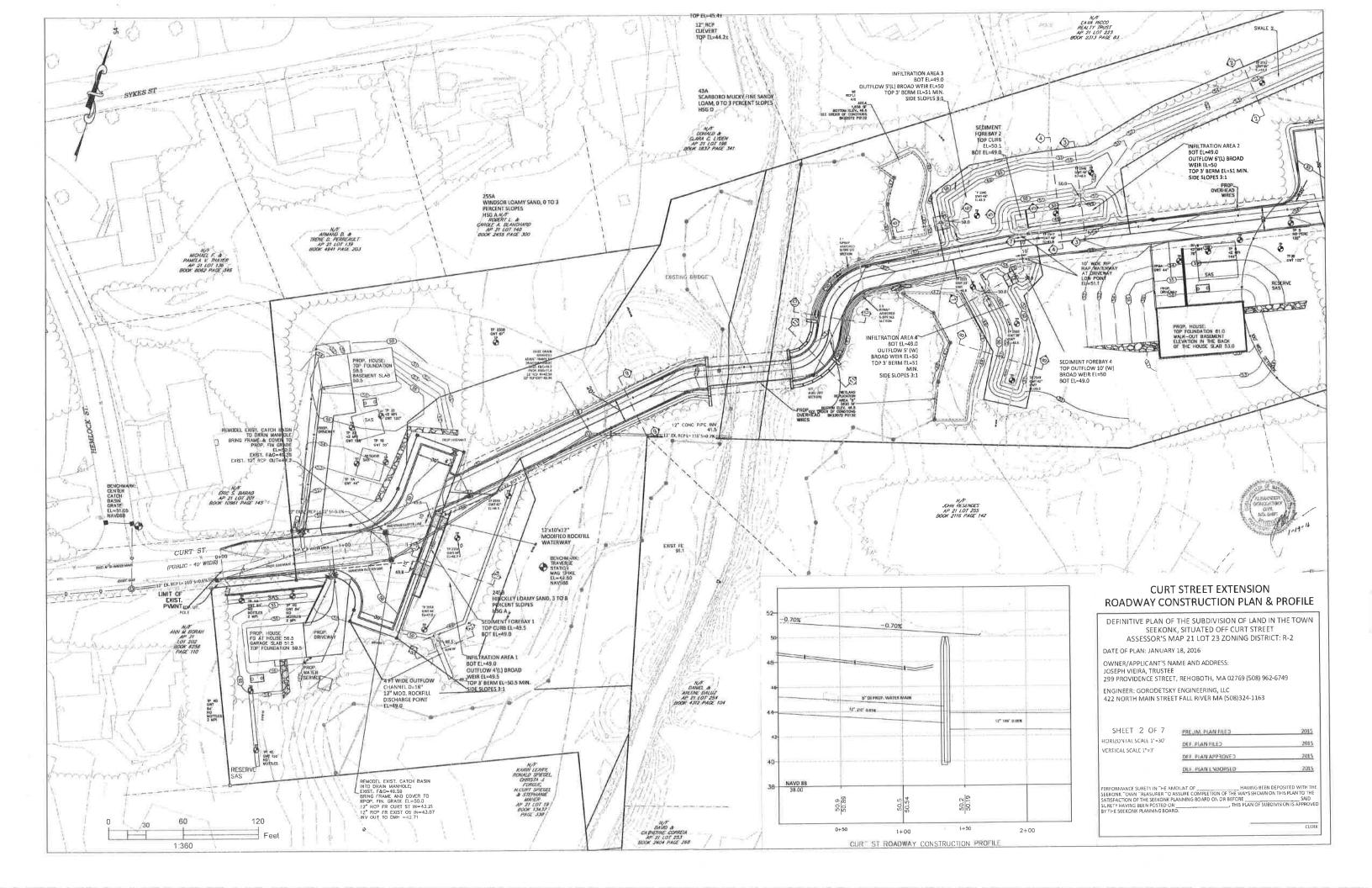


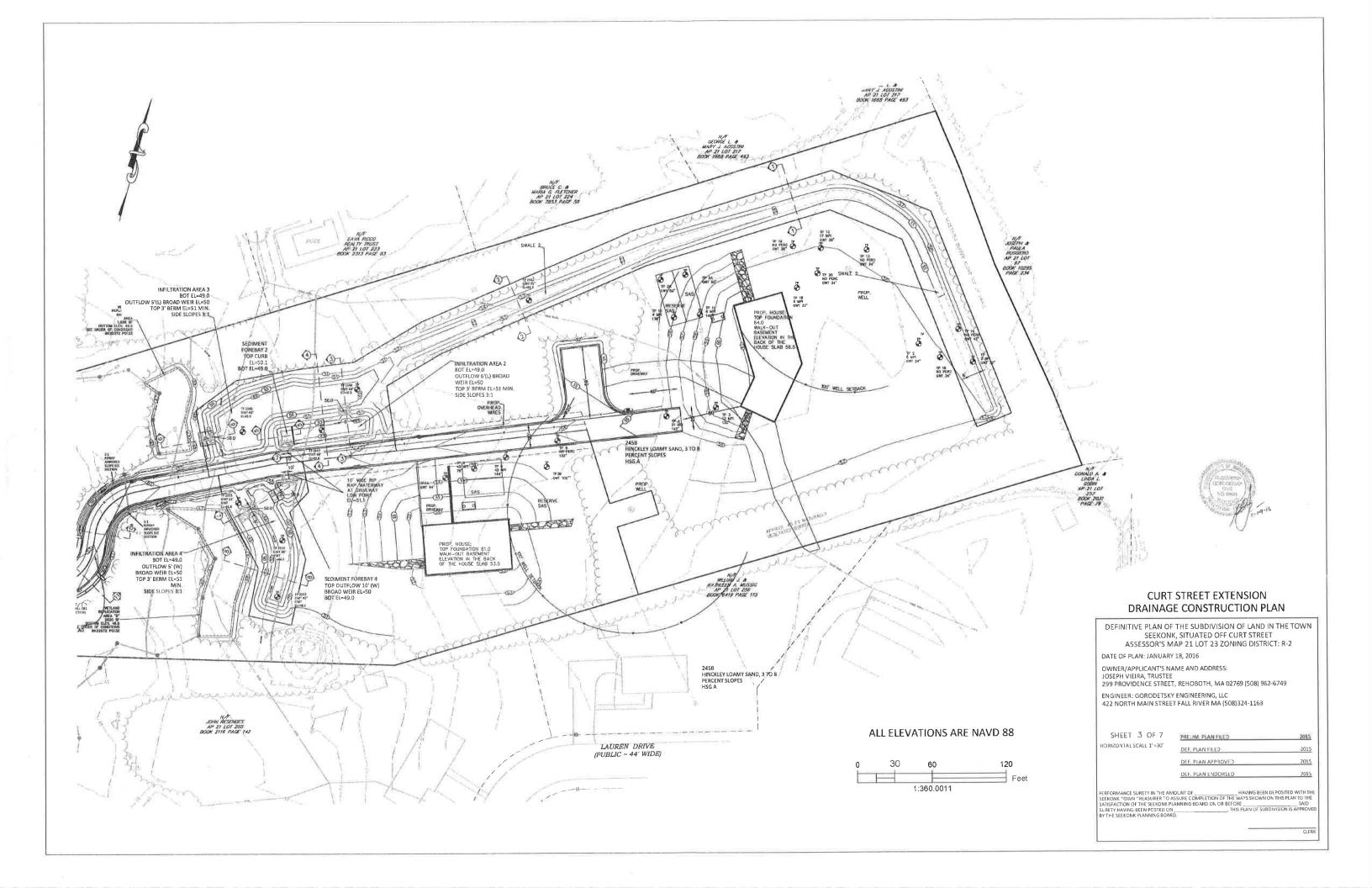
REQUESTED WAIVERS FROM RULES AND REGULATIONS GOVERNING THE SUBDIVISION OF LAND:

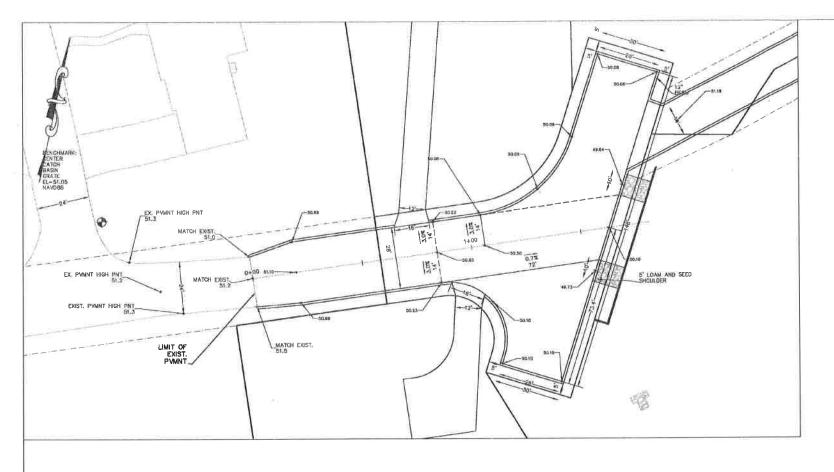
1. 8.222 OTHER UTILITIES PARAGRAPH 2.
WAIVER REQUESTED TO PLACE ELECTRICAL AND TELEPHONE CONDUITS ABOVE GROUND

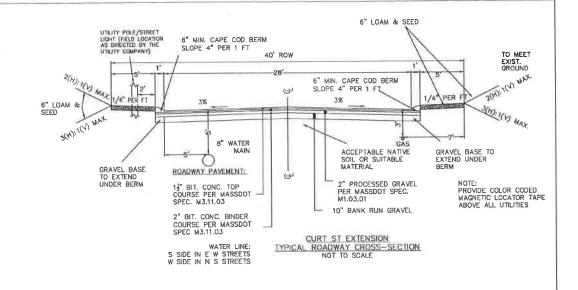
2. 7.2.3.1 GRADE
WAIVER REQUESTED FOR ROADWAY SLOPE FROM 1% TO 0.7%







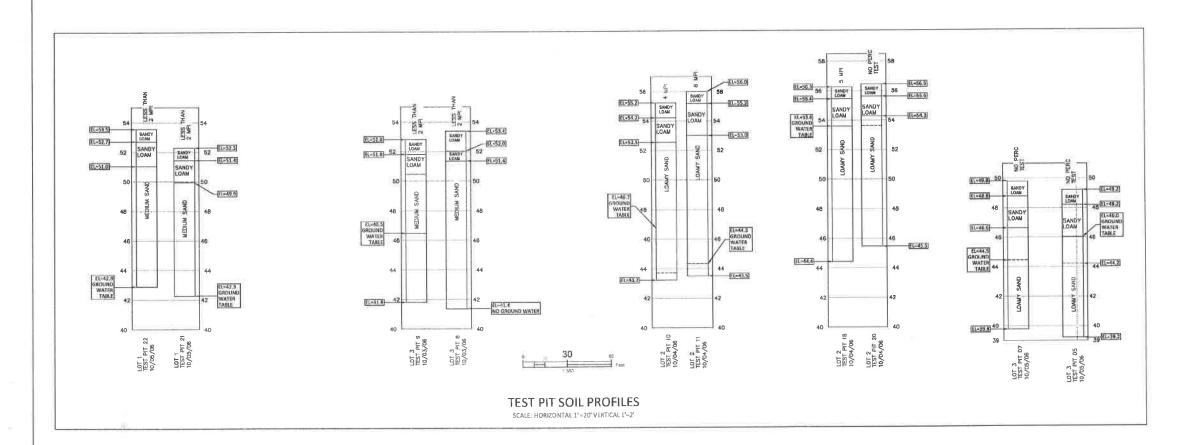






GRADING PLAN

SCALE 1"=20'





ALL ELEVATIONS ARE NAVD 88

CURT STREET EXTENSION HAMMER-HEAD GRADING PLAN & TYPICAL SECTION SOIL PROFILES

DEFINITIVE PLAN OF THE SUBDIVISION OF LAND IN THE TOWN SEEKONK, SITUATED OFF CURT STREET ASSESSOR'S MAP 21 LOT 23 ZONING DISTRICT: R-2

DATE OF PLAN: JANUARY 18, 2016

OWNER/APPLICANT'S NAME AND ADDRESS:

JOSEPH VIEIRA, TRUSTEE 299 PROVIDENCE STREET, REHOBOTH, MA 02769 (508) 962-6749

ENGINEER: GORODETSKY ENGINEERING, LLC 422 NORTH MAIN STREET FALL RIVER MA (508)324-1163

SHEET 4 OF 7

 PRELIM. PLAN FILED
 2015

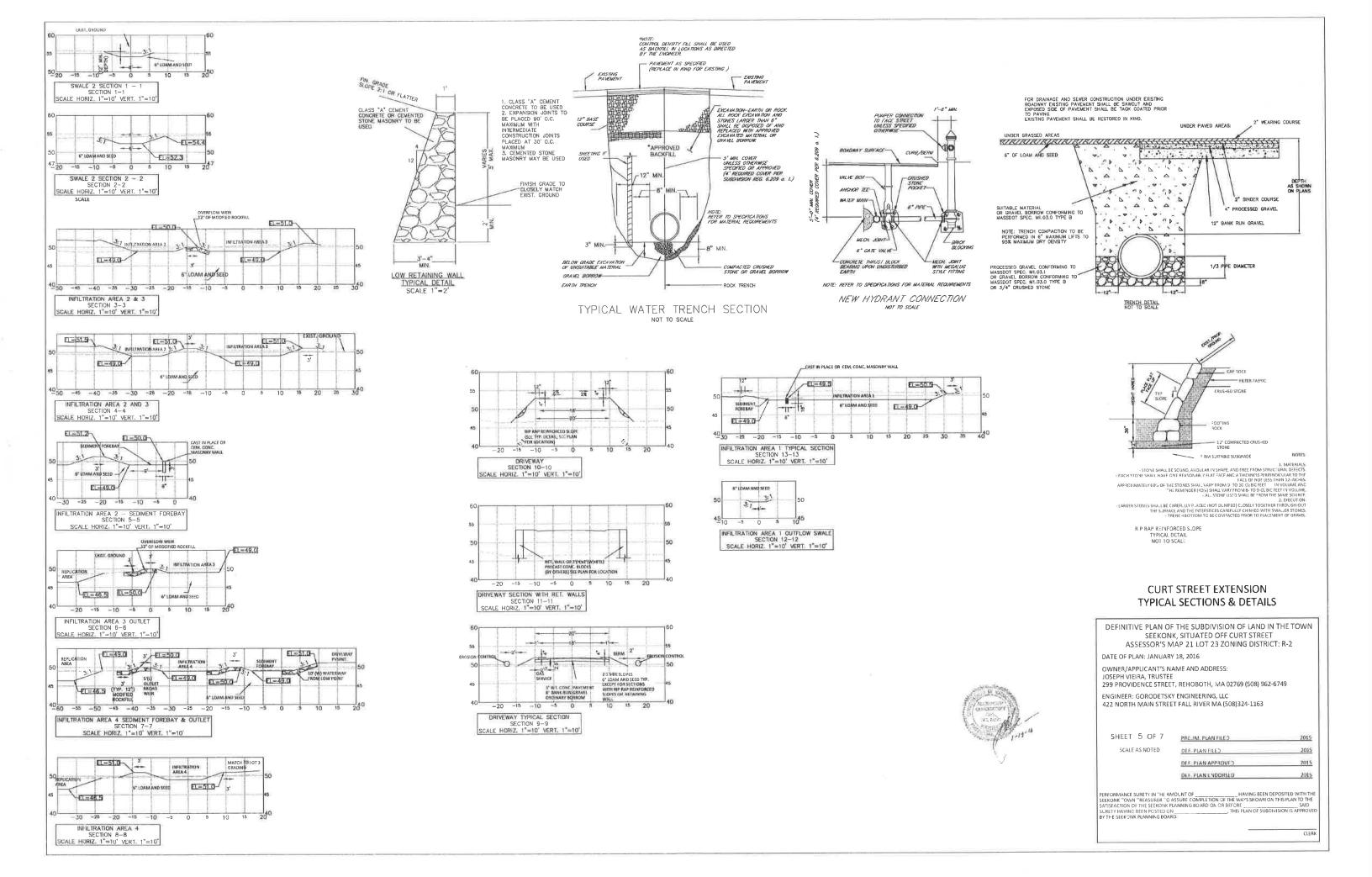
 DEF. PLAN FILED
 2015

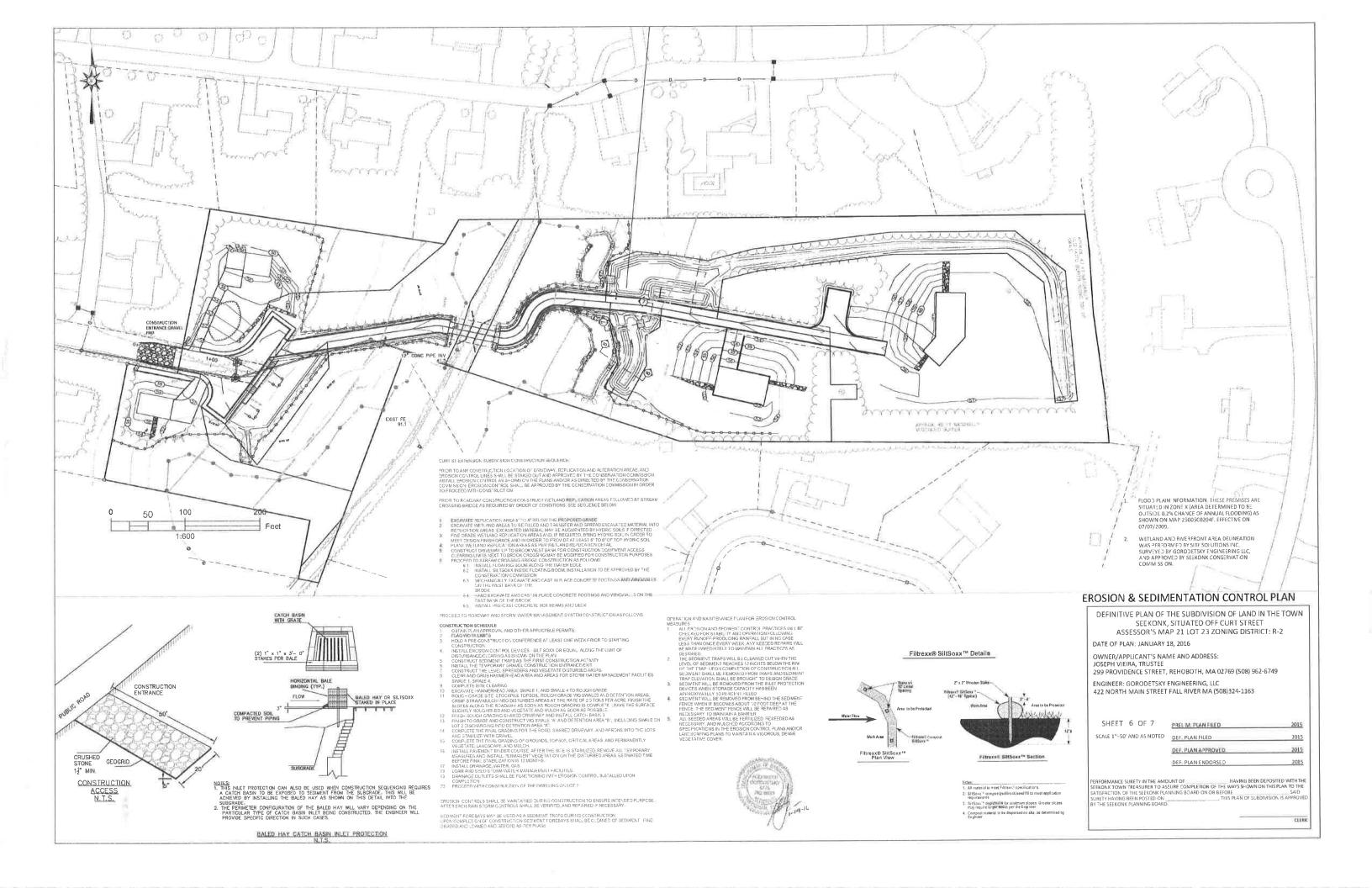
 DEF. PLAN APPROVED
 2015

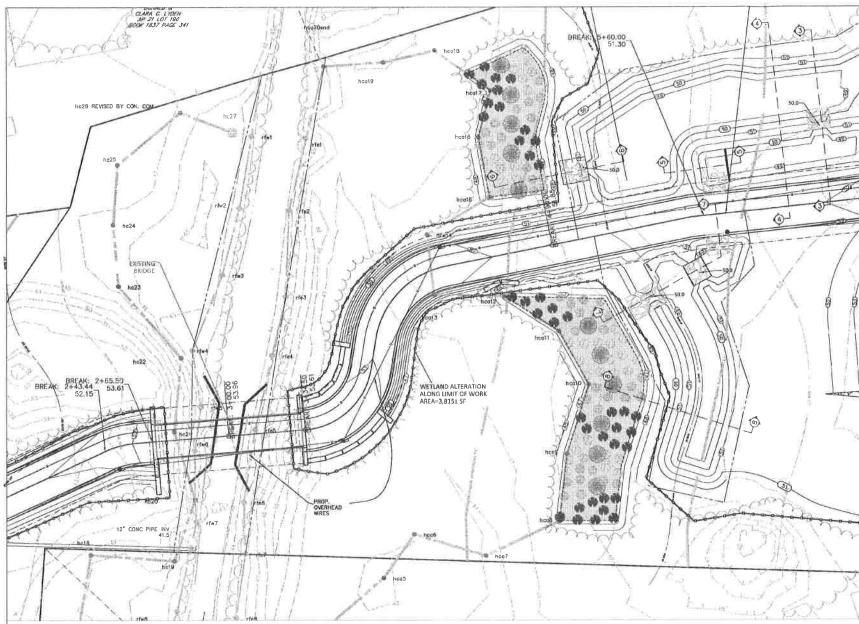
 DEF. PLAN ENDORSED
 2015

PERFORMANCE SURETY IN THE AMOUNT OF HAVING BEEN DEPOSITED WITH THE SEEKONK TOWN TREASURER TO ASSURE COMPLETION OF THE WAYS SHOWN ON THIS PLAN TO THE SATISFACTION OF THE SEEKONK PLANNING BOARD ON OR BEFORE SAID SURETY HAVING BEEN POSTED ON THE SEEKONK PLANNING BOARD. THIS PLAN OF SUBDIVISION IS APPROVED BY THE SEEKONK PLANNING BOARD.

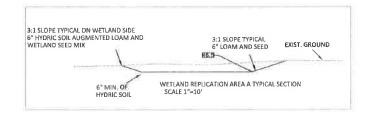
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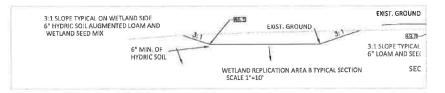






DETAIL OF WETLAND ALTERATION AND REPLICATION AREAS SCALE 1"=20'





WETLAND ALTERATION AND REPLICATION SCHEDULE

PROPOSED VETLAND ALTERATION:
AREA = 3,815 SQ FT (AREA UNDER BRIDGE SPAN [S NOT INCLUDED)

PROPOSED WETLAND REPLICATION

AREA = 1.658 + 2.820 = 4.478 SQ. FT.

WETLAND REPLICATION AREA PLANTING SCHEDULE AND LEGEND

RED MAPLE (ACER RUBRUM, FAC) - HEIGHT 4' TO 6' PLANTED 10'-15' O.C. 11 EA

HIGH BUSH BLUEBERRY (VACCINIUM CORYMBOSUM FACW-) - HEIGHT 18" TO 24" PLANTED 6'-8' O.C. 40 EA

SPICEBUSH (NORTHERN LINDERA BENZOIN FACW-) - HEIGHT 18" TO 24" PLANTED 6'-8' O.C. 40 EA WINTERBERRY (COMMON ILEX VERTICILLATA FACW+) - HEIGHT 18" TO 24" PLANTED 6'-8' O.C., 40 EA;

GROUND COVER - SEE PLANTING NOTE

WETLAND REPLICATION AREA GROUND COVER PLANTING NOTE APPLY NEW ENGLAND WETMIX (WETLAND SEED MIX) AS PROVIDED BY NEW ENGLAND WETLAND PLANTS, INC

APPLICATION RATE OF 1 (ONE) POUND PER 2,500 SF; SEE ATTACHED MANUFACTURER'S SPECIFICATIONS FOR DETAILS.

New England Wetmix (Wetland Seed Mix)

Delatural Name	[Contract (wattic	marcane
	115 1/4/2/11521311111	T. Tarecto
Carex hirida	Lurid Sødge	OHL
Carex scepneia	Blunt Broom Sedge	FACW
Verbenn hastana	Illue Vervain	FACW
Carex bipulina	Hop Sedge	OHL
Sciepus atrovirens	Green Hulrush	OHI
Pardeum rigidalum	Redtop Panic Grass	FACW
Deschampsia cospitosa	Tuffed Hairgrass	FACW
Blidess uristosa	Tickseed Sunflower/Bor Mangold	FACW
Elembary palastric	Creeping Spike Rush	OBI.
Juneus effusion	Soft Rush	EACW
Carex ceinita	Fringed Sedge	OBL
Minudus ringens	Square Stemmed Monkey Flower	OHL
Aster punicrus	Swamp Aster	OHL
Espawrum perfediatum	Boneset	FACW
Glyveria canadensis	Ratifesnake Grass	COST
Anotoplas incuriota	Swamp Millewood	0.001
Helenhon antunuale	Common Succeeweed	FACW
Pentherum sedeidex	Ditch Stonecrop	OBL

PRIOR TO ANY CONSTRUCTION LOCATION OF DRIVEWAY, REPLICATION AND ALTERAT ON AREAS, AND EROSION CONTROL LINES SHALL BE STAKED OUT AND APPROVED BY THE CONSERVATION

CONSTRUCTION SEQUENCE:

1. INSTALLE ROSION CONTROL AS SHOWN ON THE PLAN AND/OR AS DIRECTED BY THE CONSERVATION COMMISSION. SON, EROS ON CONTROL SHALL BE APPROVED BY THE CONSERVATION COMMISSION IN ORDER TO PROCEED WITH CONSTRUCTION.

2. EXCAVATE REPLICATION AREA &" TO 3" "SELOW THE PROPOSED GRADE."

3. EXCAVATE WETLAND AREAS TO 3E FILLED AND TRANSFER AND SPREAD EXCAVATED MATERIAL WITHOUT CONSTRUCTION.

INTO REPLICATION AREAS. EXCAVATED MATERIAL MAY BE AUGMENTED BY HYDRIC SOILS IF

INTO REPUCATION AREAS. EXCAVATED MATERIAL MAY BE AUGMENTED BY HYDRIC SOILS IT DIRECTED.

HER GRADE WETLAND REPLICATION AREAS AND, FREQUIRED, BRING HYDRIC SOIL IN ORDER TO MEET DESIGN FINISH GRADE AND IN ORDER TO PROVIDE AT LEAST 8" TO 8" OF TOP HYDRIC SOIL.

PLANT WETLAND REPLICATION AREAS AS PER WETLAND REPLICATION DETAIL.

CONSTRUCT DRIVEWAY UP TO BROOK WEST BANK FOR CONSTRUCTION EQUIPMENT ACCESS. CLEANING LIMITS NEXT TO BROOK WEST BANK TOR CONSTRUCTION EQUIPMENT ACCESS.

PARCEED TO OPEN BOX CULVERT CONSTRUCTION AS FOLLOWS:

7. PROCEED TO OPEN BOX CULVERT CONSTRUCTION AS FOLLOWS:

7. INSTALL SLITSOXX INSIDE FLOATING BOOM; INSTALLATION TO BE APPROVED BY THE CONSTRUCTION COMMISSION.

CONSERVATION COMMISSION
MECHANICALLY EXCAVATE AND CAST IN PLACE CONCRETE FOOTINGS AND WINGWALLS ON

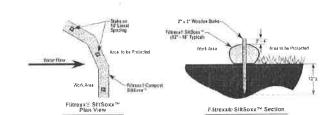
7.3. THE WEST BANK OF THE BROOK

THE WEST BANK OF THE BROOK

7.4. HAND EXCAVATE AND CAST IN PLACE CONCRETE FOOTINGS AND WINGWALLS ON THE EAST BANK OF THE BROOK

7.5. INSTALL PRE-CAST CONCRETE BOXBEAMS AND DECK

Filtrexx® SiltSoxx™ Details



1. All material to meet l'iltreux à specifications 2. SiltSoxx 1 compost/jsoitrock/seed fill to meet application

SlitSoux": expettes in for minimum slopes. Greater slopes may require target eachs per the Engineer.



STREAM CROSSING STANDARDS

1, TYPE OF CROSSING
GENERAL: SANS (BR DGES, 3-5 DED BOX CULVERTS, OPEN-BOTTOM CULVERTS OR ARCHES)
ARE STRONGLY PREFERRED.
OPT.M.J.M. USEA BRIDGE
BRIDGE IS PROPOSED.

2. EWBEDMENT

ENBEDMENT

ALL CULVERTS SHOULD BE ENBEDDED (SUNK INTO STREAM) A MINIMUM OF 2 FEET, AND ROUND PIPE CULVERTS AT LEAST 25%.

IF PIPE CULVERTS CANNOT BE EMBEDDED THIS DEEP, THEN THEY SHOULD NOT BE USED, WHEN ENBEDDMENT MATER ALL INCLUDES ELEMENTS > 15 INCHES IN DIAMETER, EMBEDMENT DEPTHS SHOULD BE AT LEAST TWICE THE DB4 (PARTICLE WIDTH LARGER THAN 84% OF PART CLES) OF THE EMBEDMENT MATERIAL STANDARD DOES NOT APPLY, CULVERT IS NOT PROPOSED

3_CROSSING SPAN

GENERAL: SPANS CHANNEL WIDTH (A MINIMUM OF 1,2 TIMES THE BANKFULL WIDTH OF THE STAEAM),
OPTIMUM: SPANS THE STREAMBED AND BANKS (AT LEAST 1,2 TIMES BANKFULL WIDTH) WITH

SUFFICIENT HEADROOM TO PROVIDE ORY PASSAGE FOR WILDLIFE.
BANKEULL WIDTH AT THE CROSSING = 51.6'
PROPOSED SPAN = 63' - OUTSIDE THE STREAMBED AND BANKS; RATIO = 63'/51,6'=1,22

OFLEMENTS
GENERAL: OPENNESS RATIO (CROSS-SECTIONAL AREA/CROSSING LENGTH) OF AT LEAST 0.82
FEET (0.25 METERS), THE CROSSING SHOULD BE WIDE AND HIGH RELATIVE TO ITS LENGTH).
OPTIMUM: OPENNESS RATIO OF AT LEAST 1.64 FEET (0.5 METERS) AND MINIMUM HEIGHT OF

OF IMMON'S PENNESS ANTO OF ALL EAST LEGITLE (IGS WETERS) AND WINNING HEIGHT OF FEET, IF COUNTY TONS SIGNIFICANTLY SEDUCE WILDIHE PASSAGE NEAR A CROSSING (E.G., STEEP EMBAYKMENTS, HIGH TRAFFIC VOLUMES, AND PHYSICAL BARRIERS), MAINTAIN A MINIMUM HEIGHT OF 8 -EET (2.4 METERS) AND OPENNESS RATIO OF 2.46 -EET (0.75 METERS).

PROPOSED CROSS-SECTIONAL AREA = 255 SF PROPOSED CROSSING OPENNESS = CROSS-SECTIONAL AREA/CROSSING LENGTH = 15.9'

HEIGHT = 8' - EXCEEDS HEIGHT OF THE UPSTREAM CULVERT AT SYKES ST

5. SUBSTRATE

• NATURAL BOTTOM SUBSTRATE SHOULD BE USED WITHIN THE CROSSING AND IT SHOULD MATCH THE UPSTRAM AND DOWNSTREAM SUBSTRATES. THE SUBSTRATE AND DESIGN SHOULD RES ST DISPLACEMENT DURING FLOODS AND MAINTAIN AN APPROPRIATE BOTTOM

D JRING NORMAL FLOWS, NO CHANGE IN SUBSTRATE IS PROPOSED - CROSSING SPANS THE STREAM FROM OUTSIDE MAHW

6. WATER DEPTH AND VELOCITY

WATER DEPTH AND VELOCITY
WATER DEPTH AND VELOCITIES ARE COMPARABLE TO THOSE FOUND IN THE NATURAL
CHANNEL AT A VARIETY OF HOWS.
NO CHANGE IN WATER DEPTH AND VELOCITIES IS EXPECTED
CROSSING SPANS THE STREAM FROM OUTSIDE MAHW AND FROM
OUTSIDE BANKFULL ELEVATION

WETLAND ALTERATION, REPLICATION & STREAM CROSSING PLAN

SUBJECT TO ORDER OF CONDITIONS - STREAM CROSSING FOR DRIVEWAY AND SINGLE FAMILY RESIDENCE ONLY - BY SECKONK CON COM BK 22072 PG 132 SEE PLANS ON FILE WITH CON. COM. FOR ADDITIONAL DETAILS

DEFINITIVE PLAN OF THE SUBDIVISION OF LAND IN THE TOWN SEEKONK, SITUATED OFF CURT STREET ASSESSOR'S MAP 21 LOT 23 ZONING DISTRICT: R-2

DATE OF PLAN: JANUARY 18, 2016

OWNER/APPLICANT'S NAME AND ADDRESS: JOSEPH VIEIRA, TRUSTEE

299 PROVIDENCE STREET, REHOBOTH, MA 02769 (508) 962-6749

FNGINEER: GORODETSKY ENGINEERING, LLC

422 NORTH MAIN STREET FALL RIVER MA (508)324-1163

SHEET 7 OF 7 SCALE AS NOTED

PREL M. PLANFILED DEF-PLAN FILED DEF. PLAN APPROVED DEF, PLAN ENDORSED 2015

PERFORMANCE SURETY IN THE AMOUNT OF HAVING BEEN DEPOSITED WITH THI SEEKONK TOWN TREASURER TO ASSURE COMPLETION OF THE WAYS 9-FOWN ON THIS PLAN TO THE SATISFACTION OF THE SEEKONK PLANNING BOARD ON OR BEFORE SAID SURETY HAVING BEEN POSTED ON HIS PLAN OF SUBDIVISION IS APPROVE



Planning Board

100 PECK STREET SEEKONK, MASSACHUSETTS 02771 1-508-336-2961

MEMORANDUM

Date: February 9, 2016

To: Planning Board

From: John J. Aubin III, Town Planner

Re: Application for covenant release and setting of pre-acceptance contingency surety related to the public improvements associated with the **Girard Estates** definitive subdivision being AP 15 lot 83

The applicant is before the Planning Board upon requests for covenant release and the setting of a preacceptance contingency surety for the project in anticipation of formal acceptance of the roadway (Betty's Way) at the next Town Meeting. The applicant appeared before the Planning Board on April 14, 2015 regarding a request to eliminate street trees in the development. The applicant has complied with the Planning Board's request to obtain letters of non-objection from the residents in the development. The as-built plan for the development has been submitted by the project engineer together with documentation of completion of the other outstanding items related to the public improvements for the development.

The applicant is now requesting that the remaining covenant being held by the Planning Board on subdivision lot 7 be released and a 5% pre-acceptance contingency surety be substituted as provided for in the **Rule and Regulations Governing the Subdivision of Land in the Town of Seekonk**. The Department of Public Works has been made aware of the applications and a request for comment has been made. Based on the construction cost estimate for the development the 5% pre-acceptance contingency amount is \$4099.41. should the Planning Board deem such action appropriate it is respectfully requested that the remaining covenant being held to insure the public improvements related to Betty's Way in the Conrad Girard residential development be released and a 5% contingency surety in the amount of \$4099.41 be set.

I	



Planning Board

100 PECK STREET SEEKONK, MASSACHUSETTS 02771 1-508-336-2961

MEMORANDUM

Date: February 9, 2016

To: Planning Board

From: John J. Aubin III, Town Planner

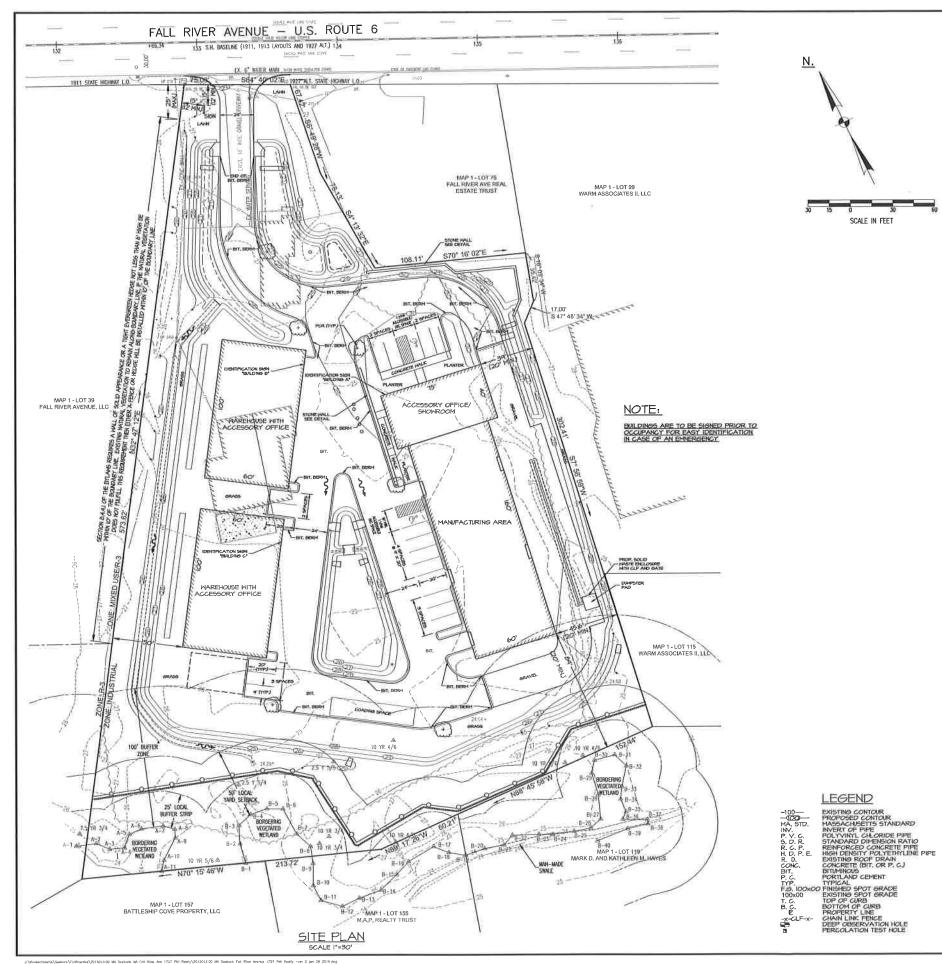
Re: Site plan application for <u>1727 Fall River Avenue</u> being AP 1 lot 20 located in an industrial zoning district

The applicant is before the Planning Board for a continued site plan review. The applicant has revised the plans in accordance with the comments generated during the staff and peer reviews. The revised plans and copies of the correspondence pertaining to the peer review are attached. The peer review engineer has made a request for additional construction notes however the design engineer has indicated that the requested mitigation measures are addressed in the operation and maintenance plan. During the peer review a specific condition was proposed with regard to Town inspection of the installation of the proposed bio-retention basin and trenches. In resolution of the matter there would appear to be two available approaches. The Planning Board could require the applicant retain the Board's inspecting engineer to inspect the work as requested in a fashion similar to public improvement related to a subdivision. An alternate condition would be the provision of a statement by the design engineer that the engineer was onsite during the excavations that the bio-retention basin and trenches were installed in accordance with the BMP detail specifications. In addition to the Planning Board's preference in addressing the above proposed condition; the following were previously recommended to be considered as part of any approval the Planning Board may deem appropriate to grant:

- 1. Approval of the proposed waste water treatment system by the Seekonk Board of Health;
- 2. Final Authorization for the notice of Intent or such other approvals as may be required by the Seekonk Conservation Commission;

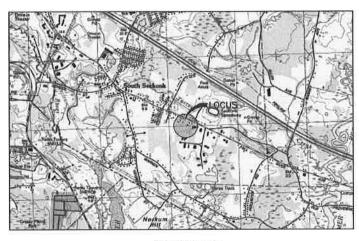
- Any future uses introduced to the site shall only be established or changed in accordance with the applicable provisions of the Seekonk Zoning By-Laws.
 Such other conditions as the Planning Board deems appropriate to ensure that the proposed development meets the required site plan design standards as set forth in the Town of Seekonk Zoning by-Laws.

The application was also reviewed at the January 28, 2016, TRC meeting. During that review, no new comments were generated by the reviewing Town departments.





LEGEND



LOCATION MAP

PARKING SCHEDULE

PROPOSED MANUFACTURING/MAREHOUSE WITH ACCESSORY OFFICE/SHOWROOM

MIN. 22 • 2 PER EACH 3 (MAX.) / I PER EACH 3 (MIN.) IS SPACES T SPACES ACCESSORY OFFICES 2800 S.F. • I PER 300 (MAX) / I PER 500 S.F. (MIN.) ACCESSORY SHOWROOM 1200 S.F. . I PER 250 (MAX.) / I PER 500 S.F. (MIN.) 5 SPAGES 2 SPACES TOTAL SPACES
MINIMM ACCESSIBLE SPACES REQUIRED
TOTAL PROPOSED SPACES: 18 INCLUDING 2 ACCESSIBLE SPACES
LOADING SPACE: I LOADING SPACE IS SPACES

NOTE: THIS PARKING PLAN COMPLIES WITH ARCHITECTURAL ACCESS BOARD PARKING AND PASSENGER LOADING ZONES REGULATIONS (52) CMR 23).

PLANTING SCHEDULE

PROPOSED TOTAL SPACES: 18

REGUIRED SHADED AREA

AREA PER PARKING SPACE - 4" X 20" = 180 S.F. PER SPACE

SHADED AREA - 30% OF PARKING AREA

SHADED AREA REGUIRED

(8 SPACES X 180 S. F. x 30% = 912 S. F.

SHADE PROVIDED PER TREE

(15)* X A = 101 S.F.

TREES REGUIRED

971 S.F. - 101 S. F. PER TREE = 1.4 ~ 2 TREES

PROPOSED TREES: 6

SYMBOL QUANTITY COMMON NAME SCIENTIFIC NAME 9/78/5 CALLERYANA REDSPIRE 2 - 25° CAL B4B

SHEET SCHEDULE

SHEET NO.

LAYOUT-OI

LAYOUT AND PARKING PLAN
LIGHTING PLAN
ACCESS PERMIT PLAN
ROSION & SEDIMENT CONTROL PLAN
ROSION & SEDIMENT CONTROL PLAN
PRAINAGE AND GRADING PLAN
SENAGE DISPOSAL SYSTEM PLAN
PRAINAGE & BMP DETAILS
SENAGE DISPOSAL SYSTEM DETAILS

REVIEWAPPROVING AUTHORITY

PLANNING
PLANNING
MASS DOT
CONSERVATION/PLANNING
CONSERVATION/PLANNING
BOARD OF HEALTH/CONSERVATION
CONSERVATION/PLANNING
BOARD OF HEALTH



YARD SETBACK REQUIREMENTS:

LOT INFORMATION

FRONT: 50' SIDE: 20' MAXIMUM HEIGHT: 3 STORIES OR 40' MAXIMUM LOT COVERAGE BY BUILDING: 50%





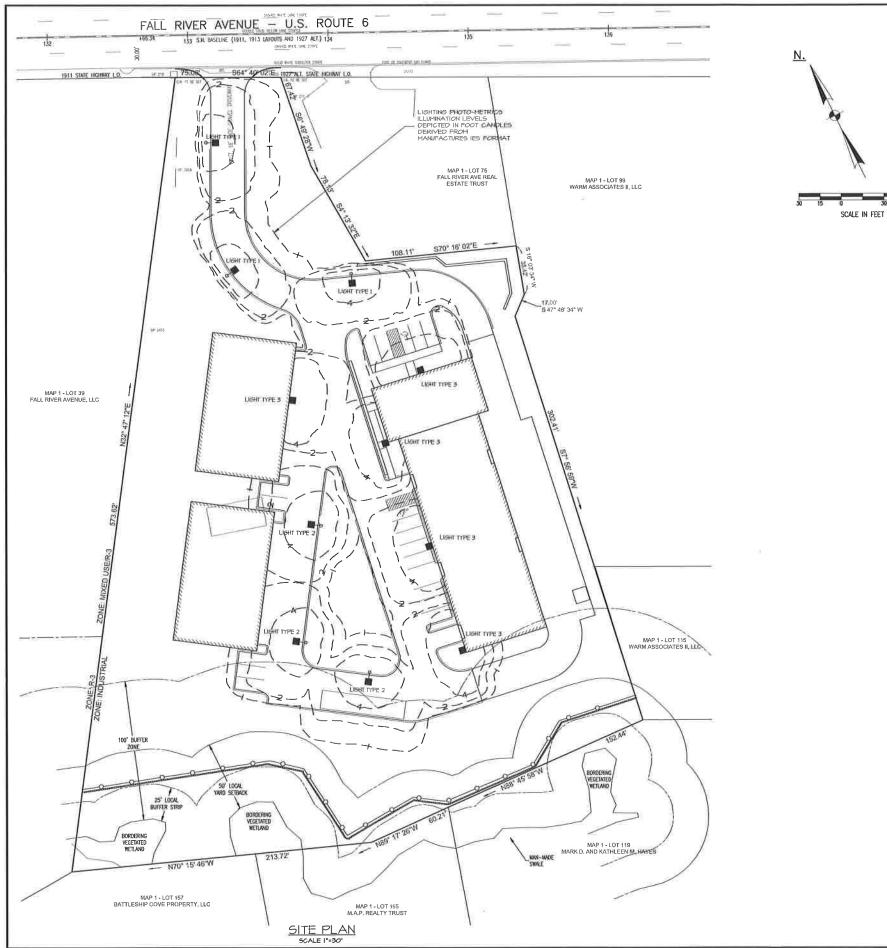
LAYOUT and PARKING PLAN 1727 FALL RIVER AVENUE PLAT 1 - LOT 20 SEEKONK, MASSACHUSETTS

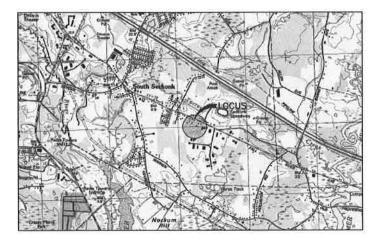
CAPUTO AND WICK LTD.

REV.: JANUARY 29, 2016 REV.: JANUARY 22, 2016

LAYOUT-01

NOVEMBER 2, 2015





LOCATION MAP SCALE: 1" = 2000'

SITE LIGHTINIG SCHEDULE

DYPE	MODEL	MOUNT	HEIGHT	QUANTITY					
1	ASA-16091-530-4L	POLE	20'	3					
2	ASA-160GI-530-4L-HSS	POLE	20'	3					
5	ASA-16061-530-4L	BUILDING	16'	5					
LIGHTING IS PHILIPS GRADCO AEROSPACE PRODUCT LINE.									

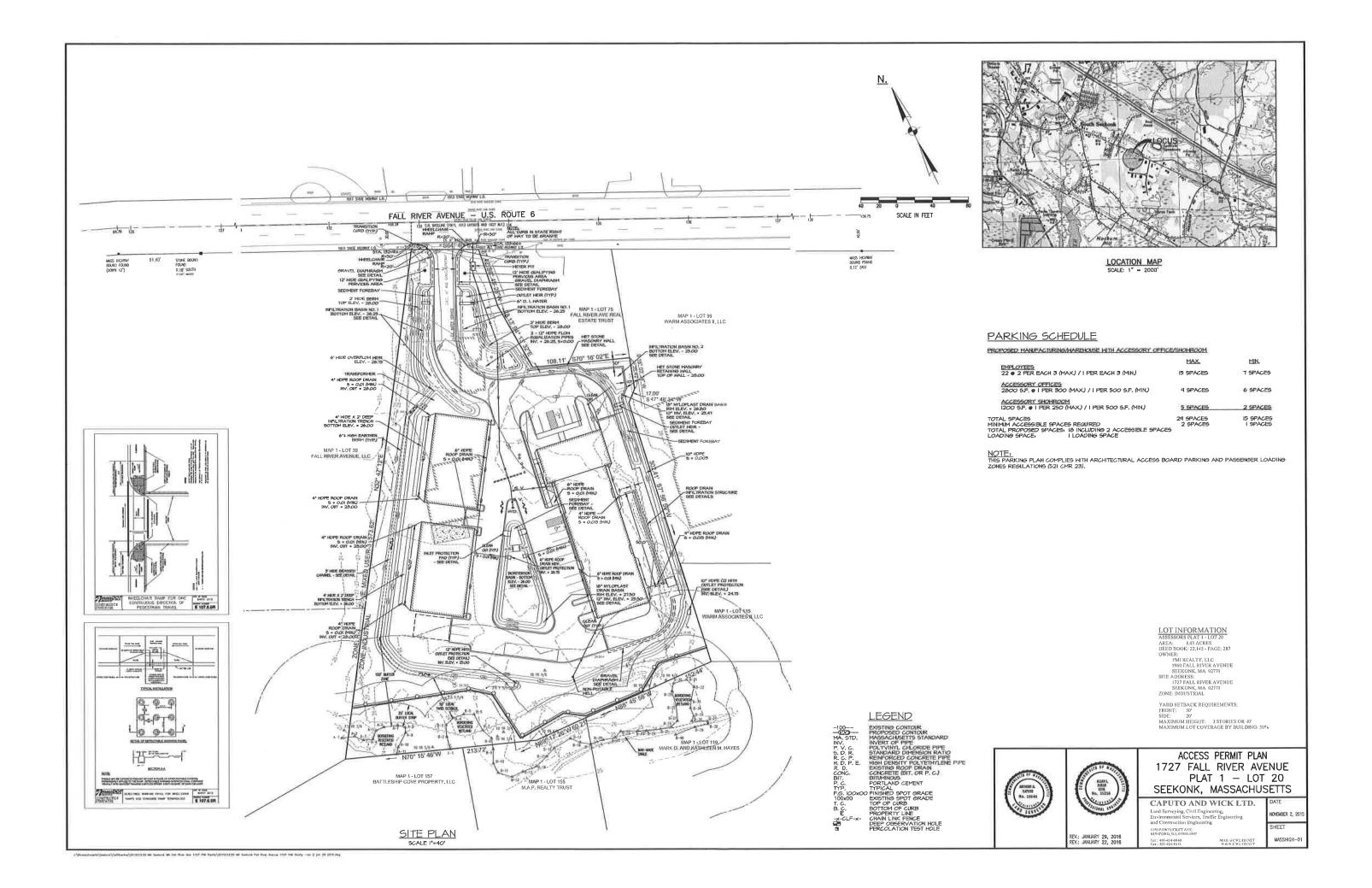
CAPUTO AND WICK LTD.

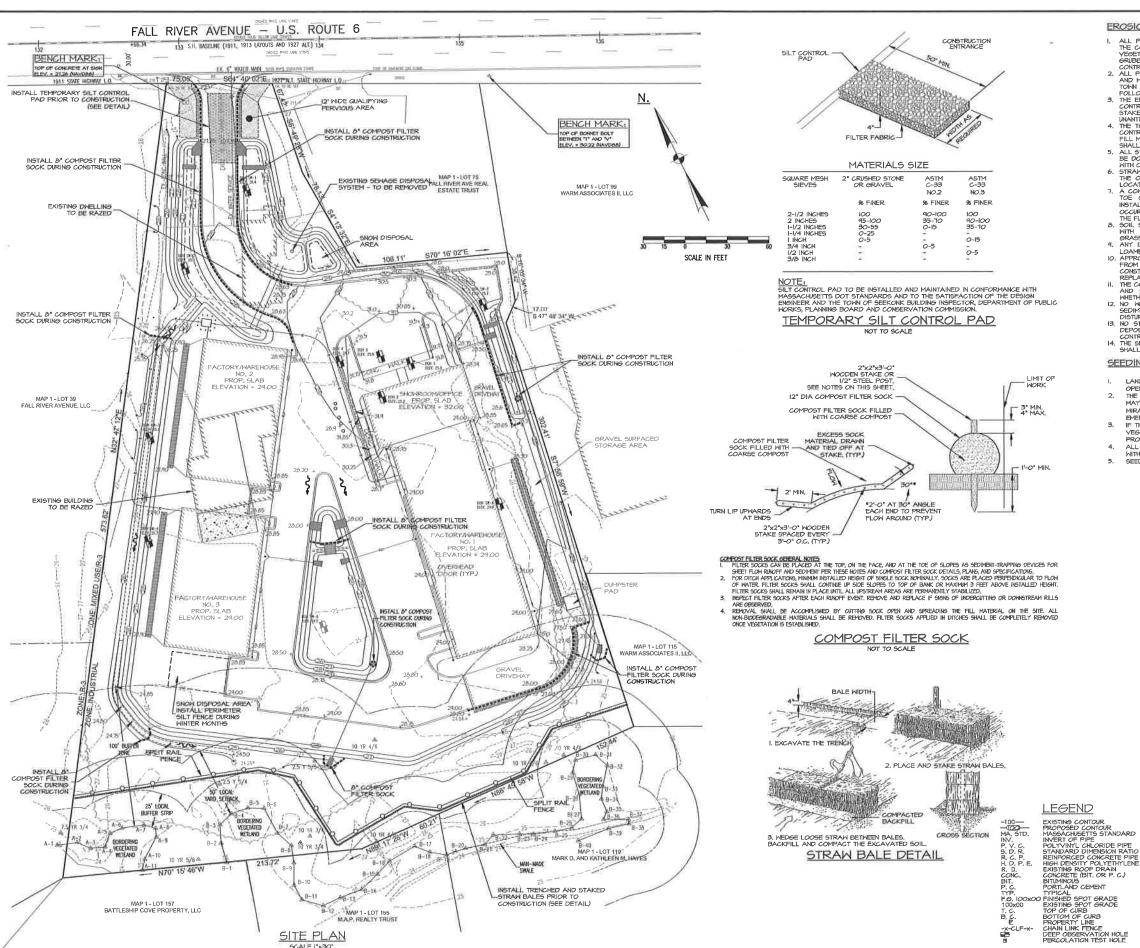
Land Surveying, Civil Engineering, Environmental Services, Traffic Engir and Construction Engineering

LIGHT-01

LIGHTING PLAN 1727 FALL RIVER AVENUE PLAT 1 - LOT 20

SEEKONK, MASSACHUSETTS





INTERNATION AND AND THE AND 1777 PM PARTY STREET WAS RECEIVED FOR THEIR ASSAULT FOR BANKS THE 2 Jun 28 2015 FINE

EROSION AND SEDIMENTATION CONTROL

- 1. ALL PERIMETER EROSION AND SEDIMENTATION CONTROLS MIST BE INSTALLED PRIOR TO THE COMMENCEMENT OF EARTH-WORK AT THE SPECIFIC AREAS INDICATED ON THE PLANS, VEGETATIVE CLEARING MAY OCCUR PRIOR TO INSTALLATION OF SUCH CONTROLS, BUT NO GRUDBING, GRADING, FILLING, OR OTHER SOIL DISTURBANCE SHALL OCCUR PRIOR TO CARDENING, FRADING, FILLING, OR OTHER SOIL DISTURBANCE SHALL OCCUR PRIOR TO CARDENING, FRADING, FILLING, OR OTHER SOIL DISTURBANCE SHALL OCCUR PRIOR TO AND MIST RENAM IN PLACE WITH, SOILS HAVE STABILIZED TO THE SATISFACTION OF THE TOWN OF SEEKONK. CONTROLS ARE TO BE INSPECTED MEELTY AND IMMEDIATELY FOLLOWING ALL PRECIPITATION EVERTS THAT INCLIDE RAINFALL OF QU'P OR MORE.

 3. THE ENGINEER OR TOWN REPRESENTATIVE RESERVES THE RIGHT TO SPECIFY ADDITIONAL. CONTROLS AS CONDITIONS MAY MARRANT. ACCESSIBLE RESERVES OF STRAW BALES AND STAKES ARE TO BE MAINTAINED ON SITE FOR ROUTINE MAINTENANCE AND IN THE EVENT OF JUNANTICIPATED PROBLEMS REQUIRING IMMEDIATE RESPONSE.

 4. THE TOE OF FILL SLOPES SHALL REMAIN AT LEAST ONE FOOT INSIDE OF ALL EROSION CONTROLS. WINDER NO CIRCUMSTANCE SHALL THE EROSION CONTROLS BE COVERED WITH FILL MATERIAL. ANY FILL MATERIAL. THAT IS PLACED ON OR AGAINST EROSION CONTROLS SHALL BE IMMEDIATELY REMOVED.

 5. ALL STRAM BALES ARE TO BE INSTALLED WITH THE LOWER 4 INCHES BURIED AND BACK FILLED WITH THE LOWER 4 INCHES BURIED AND BACK FILLED WITH THE LOWER 4 INCHES BURIED AND BACK FILLED WITH THE LOWER AND BACK FILLED WITH THE TOP OF THE PREFINETER STRAM BALES.

 6. STRAM BALE CHECK DAMS ARE TO BE INSTALLED AT ANY AREA WHERE STORM MATCH HAS THE OPPORTMINITY TO DRAIN AND SCOUR ALONG THE TO GO F DELLY-CREATED SLOPES LOCATED INSIDE THE PERIMETER STRAM BALES.

 A CONTINUOUS LINE OF STAKED, INTERCLED STRAM BALES SHALL BE INSTALLED AROUND THE FLOOR PERIMETER STRAM BALES.

 A CONTINUOUS LINE OF STAKED, INTERCLEDED STRAM BALES SHALL BE INSTALLED AROUND THE FLOOR PERIMETER STRAM BALES.

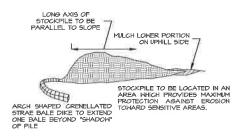
 A CONTINUOUS LINE OF STAKED STRAM BALES MISS BE INSTALLED AROUND THE FLOOR PERIMETER STRAM BALES FOR MATCH AND SCOUR IMMEDIATELY

- 8. SOIL STOCKPILES TO REMAIN IDLE MORE THAT 30 CALENDAR DAY'S ARE TO BE RINGED HITH ETHERS ELT FENCE OR STAKED STRAW BALES AND SECDED HITH A CONSERVATION GRASS MIX.

 ANY DISTURBED SOILS NOT DESIGNATED FOR OTHER SURFACE TREATMENT ARE TO BE LOAMED (4 INCHES) AND SECDED MIXMEDIATELY FOLLOWING FINAL GRADING. TO APPROPRIATE PREADULED BE TAKEN TO PREVENT CORRECTION EQUIPMENT FROM THE PROPRIATE PREADULED BE TO THE FORM THE PROPRIATE OF THE PROPRIATE PROPRIATE PROPRIATE PROPRIATE SHEED BE TO THE LIZED CO. CONTROL SHAPE TRACKING, STONE IS TO SEED TO THE STONE IS THE CONTROL OF THE PROPRIATE PROPRIATE SHAPE SHEED FOR THE STONE IS THE PROPRIATE SHEED FOR THE SHAPE SHAP

SEEDING AND LANDSCAPING:

- LANDSCAPING SHALL OCCUR AS SOON AS POSSIBLE AFTER GENERAL CONSTRUCTION OPERATIONS IN ORDER TO PROVIDE PERVANENT STABILIZATION OF DISTRIBED SUPFACES.
 THE CONTRACTOR SHALL UTILIZE SLOPE STABILIZATION METHODS AND MATERIALS THAT MAY BE ADJUSTED TO VARYING SITE CONDITIONS. EROSION CONTROL BLANKETS OR MIRAFI MIRAMET (OR SIMILAR PRODUCTS) SHALL BE MADE AVAILABLE ON SITE FOR
- F THE SEASON OR ADVERSE WEATHER CONDITIONS DO NOT PERMIT PROPER GROWTH OF VEGETATION, TEMPORARY MULCHING WITH STRAW OR OTHER METHODS SHALL BE
- FROVIDED,
 ALL DISTURBED SURFACES TO BE PLANTED SHALL RECEIVE A MINIMUM OF 4" OF TOPSOIL WITH THE SURFACE SMOOTHED TO THE SPECIFIED GRADES.
 SEED APPLICATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS DIRECTIONS.



TEMPORARY STOCKPILE NOT TO SCALE



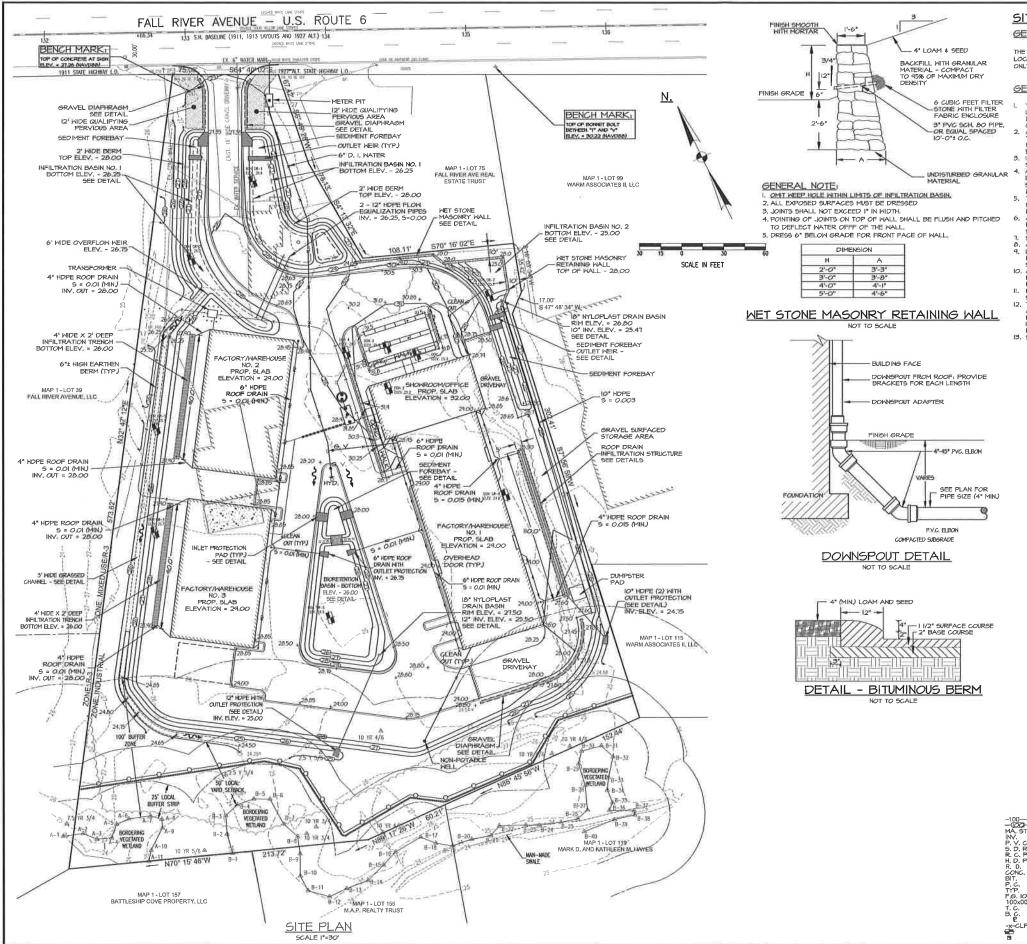
EROSION & SEDIMENT CONTROL PLAN 1727 FALL RIVER AVENUE PLAT 1 - LOT 20 SEEKONK. MASSACHUSETTS

OCTOBER, 2015

1 OF 5

CAPUTO AND WICK LTD.

REV.: JANUARY 29, 2016 REV.: JANUARY 22, 2016 REV.: NOVEMBER 2, 2015



SITE CONSTRUCTION NOTES:

GENERAL CONSTRUCTION REQUIREMENTS:

THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL, THIS OPERATION SHALL INCLUDE SWEEPING ALL PAYED SURFACES LOCATED IN THE SITE AREA AND ANY OFF-SITE AREAS THAT ARE IMPACTED BY SITE CONSTRUCTION ON A REGULAR BASIS. ONLY CLEAN, POTABLE WATER SHALL BE USED TO CONTROL DUST. CHEMICAL DUST SUPPRESSANTS SHALL NOT BE USED

GENERAL CONSTRUCTION NOTES

- THE LOCATION AND DEPTH OF EXISTING LITLITIES HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE CONTRACTORS. AND ANY CONSTRUCTION OPERATIONS.

 ANY DAMAGET DE INSTRUMENT OF THE CONTRACTORS RESPONSIBILITY OF THE CONTRACTOR, AND ANY COSTS ASSOCIATED HITH THE REPAIR OF DAMAGED UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. AND ANY COSTS ASSOCIATED HITH THE REPAIR OF DAMAGED TO THE SHALL BE THE CONTRACTORS RESPONSIBILITY WITH NO ADDITIONAL COST TO THE CONTRACTORS RESPONSIBILITY OF THE CONTRACTOR ARE NOTIFIED AT LEAST 12 HOURS IN ADVANCE.

 IT SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY TO OBTAIN AND PAY FOR ANY AND ALL PERMITS REGULRED BY THE STATE OF MASSACHUSETTS AND THE TOM OF SEEKONK PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS, ALL SITE MORE, IN THE TOM OF SEEKONK PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. ALL SITE MORE, INSTRUCTURES, MATERIAL INSTRUMENT SANCUTTING, ETC. SHALL CONFORM TO THE MASSACHESETTS HIGHWAY STANDARD SPECIFICATIONS FOR HIGHWAY STANDARD SPECIFICATIONS FOR HIGHWAY STANDARD WATER DISTRICT.

 IT INSTRUCTORS FOR HIGHWAYS AND PRIDGES, 1995 EDITION (HITH LATEST ADDERNOA) AND RECEIVED THE SEEKONK WATER DISTRICT.

 THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R4D) ALL MATERIALS TO INCLUDE BUT NOT LIMITED TO, TREES, STUMPS, (MSUITABLE MATERIAL, BUILDING DEMOLITION MATERIAL, FOUNDATIONS, BITM/INC/IS PAYEMENT, ETC.

- ETC.

 ALL CONSTRUCTION MORK SHALL BE PERFORMED IN THE DRY. THE CONTRACTOR SHALL PROVIDE, OPERATE, AND MAINTAIN ALL
 PIMPS, DRAINS, MELL POINTS, SCREENS, OR OTHER FACILITIES INCESSARY TO CONTROL, COLLECT AND DISPOSE OF ALL
 SWIFACE AND SUBSURFACE WATER ENCONTREDE IN THE PERFORMANCE OF THE WORK.

 STOCKPILES OF EARTH MATERIALS SHALL NOT BE LOCATED ADJACENT TO DRAINAGE STRUCTURES AND/OR NETLAND AREAS,
 ALL DISTURBED AREAS OUTSIDE THE PROPOSED PAVEMENT AREAS SHALL RECEIVE A HUMBING STELOTIVE OF LOAM AND SEED.

 JULIESS OTHERNISE NOTED, ALL DRAINAGE PIPE WILL BE HIGH DENSITY POLYETHYLENE (HOPE), SMOOTH INTERIOR, AND JULIESS
 NOTED OTHERNISE, ALL DRAINAGE STRUCTURES SHALL CONFORM TO THOSE INDICATED ON THE PLANS AND THE TOWN OF
 SEEKONK AND MASS HIGHWAY STANDARDS.

 ANY TIEMS OF WORK NOT SPECIFICALLY INDICATED ON THE PLANS BUT REQUIRED FOR THE COMPLETE CONSTRUCTION OF THE
 PROJECT WILL BE CONSIDERED INCIDENTAL TO THE PROJECT. IT WILL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL
 EXISTING STREE CONDITIONS.

- EXISTING SITE CONDITIONS,

 II. WATER LINES AND APPRICANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS AND THE SEEKONK WATER DISTRICT.

 I. THE STORMWATER POLILITION PREVENTION PLAN (SWPPP) PREPARED FOR THE PROJECT SHALL REMAIN ON SITE AND MUST BE ADHERED TO THROUGH ALL STAGES OF HORK. SITE MONITORING AND REPORTING SHALL BE AS SPECIFIED ON THESE SITE PRAININGS, IN THE SWIPPP ILLUSTRATES SITE FLOM PATTERNS. THE SWIPPP ALSO PROVIDES THE STORMWATER FIELD OBSERVATION REPORT FORM THAT MUST BE USED FOR THE PROJECT.

 13. SEE SHEET 4 FOR ADDITIONAL CONSTRUCTION NOTES.

	_		1805 0000	DEEP OBSERVATION			
				ND ELEVATION - 26.			
DEPTH	HORIZON	HXMH.	COTCH	MOTUNG	STRUCTURE	CONSISTENCE	OTHER
0 - 40*	FIU;	SANDIC LOAM			WASSAE	FINALE	QUAVELLY, COMME
40" - 48"	0	SANDY LOAM	10 YN 3/1		MASSIVE	WEAK FRIABLE	ROOTS
45° - 70°	Cat	FINE S. LOAM		448" - HANY, PRIDIX, COARSE	MASSINE	PHABLE	
70" - 104"	C2	MED-CRS SAND	10 YR 4/6	77	SINGLE GR.	LOOSE	
STANDING WAT	ER AZ*	WEEPIN	G WATER 84"	ESTIMATED SEASONAL HIGH	GW - KET	(ELEV. = 22.4)	
		STO	RMWATER	DEEP OBSERVATION	HOLE 2		
			GROU	ND ELEVATION - 26.	0		
DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	STRUCTURE	CONSISTENCE	OTHER.
0 = 26*	FILL	SAMON, FORMS					
26" - 37"	Cd1	F. SANDY LOAM	25 Y 5/2	928" -MANY, PROM., COARSE	MASSINE	FRIABLE	
37" - 60"	C2:	MED, SOND	25 9 5/4	3070-1000-00-00-00-00-00-00-00-00-00-00-00-	SNOCK OIL	3200J	
80" - 101"	C3	MED-CRS SAND	10 TH 4/6		SINGLE GR.	LOOSE	
EXAMPLING WAT	ER 27*	A Committee of the Comm	G WATER 25	ESTIMATED SEASONN, HICH		(ILEY, = 25.7)	
- 191m) - 4 m e	W.Co.	STO	PMWATER	DEEP OBSERVATION	HOLE 3	V - 10 - 22-00	
		- 010	STILL STREET	IND ELEVATION - 25.	N. Controller		
осетн	HORIZON	HEXTURE:	COLON	MOTILING - 25.		CONSISTENCE	OTHER
0 - 21*	FILL	SWIDT LOW	- COLDON	ALC HERE	IIIMOUTORL	CONSCIENCE	- Difficit
21" - 38"	Cdl	and the same of	2.5 Y 5/2	026" -MANY, PROM, COARSE	MASSIVE	FRIABLE	
38" - 80"	ca	MED. SAND	2.5 Y 4/4	wzo -mani, rnow, combe	SINGLE OR		
STANDING WAT		ATTENDED TO A STATE OF	G WATER 56	ESTIMATED SEASONAL HIGH	the street and the	471,000	
		STO	DMWATER	DEEP OBSERVATION	HOLE 4		
		310		ND ELEVATION - 25			
DEPTH	LHORIZON	Harolig	COLOR	NOTTING		CONSTRUCE	OTHER
0 - 5	A	SANDY LOAM	10 YR 3/2	- AUTIONS	MASSIVE	FRIARLE	Salles
5" + 10"	E-	LOAMY SAND	10 YH 4/6		DAGLE OR		
10" - 26"	CI	MED, L SAND		DZI" -MANY, FROM, COARSE			WEAK CEMENTED
25" - 72"	CZ		2.5 Y 4/4	WZ1 -MANNY, PULLER, COMING	SINGLE DE		THEAK CEMENTED
A V.C.	1	MEDITARIA SINCED	Section Action Action				-
			- 1111				
STANDING WAT	ER 62"		G WATER 60			(ELEV. 24,U)	
STANDING WAT	ER 62"		RMWATER	DEEP OBSERVATION	HOLE 5	(ELEV. 24,0)	
		STO	RMWATEF GROU	DEEP OBSERVATION ND ELEVATION 24.	HOLE 5		
DEPTH	никази	STO	RMWATER	DEEP OBSERVATION	HOLE 5	CONSIGNACE	OTHER
DEPTH 0 - 20*	HURZON FILL	STO TEXTURE SANDY LOAM	GROU COLUM	DEEP OBSERVATION ND ELEVATION - 24.	HOLE 5 5	COMMITTEE	7,1575
0 - 30° 20° - 66°	HURZON FILL C1	STO SINUSE SANDY LOAW MED-CRS SAND	GROUNCE 25 Y 4/4	DEEP OBSERVATION ND ELEVATION - 24. MOITILING 920" -MANY, PROM,, COARSE	HOLE 5 5	COMMITTEE	7,1575
DEPTH 0 - 20* 20" - 66"	HURZON FILL C1	STO SINUSE SANDY LOAW MED-CRS SAND	GROU COLUM	DEEP OBSERVATION ND ELEVATION - 24. MOITILING 920" -MANY, PROM,, COARSE	HOLE 5 5 SINGLE CR	COMMITTENCE SLIGHTLY HARD	7,1575
DEPTH 0 - 20*	HURZON FILL C1	STO HERTURE SMIDT LOAW MED-CRS SAND WEEPIN	GROU COLUM 2.5 Y 4/4 IG WATER 60	DEEP OBSERVATION ND ELEVATION - 24. MOTILING 920" -MANY, PROM,, COARSE	HOLE 5 5 STHUCTURE SINGLE CR.	COMMITTENCE SLIGHTLY HARD	7,1575
DEPTH 0 - 20* 20" - 66"	HURZON FILL C1	STO HERTURE SMIDT LOAW MED-CRS SAND WEEPIN	GROUDE 2.5 Y 4/4 IG WATER 60	DEEP OBSERVATION ND ELEVATION - 24. MOTILING 920" - MANY, PROM, COARSE ESTIMATED SEASONAL HIGH	HOLE 5 5 SINCLE CR. 1 GW - 20° HOLE 6	COMMITTENCE SLIGHTLY HARD	7,11,20,0
DEPTH 0 - 20* 20" - 66"	HURZON FILL C1	STO HERTURE SMIDT LOAW MED-CRS SAND WEEPIN	GROUDE 2.5 Y 4/4 IG WATER 60	DEEP OBSERVATION ND ELEVATION — 24. NOTITUM 920" — MANY, PROMI, CDARSE ESTIMATEO SEASONAL HIGH DEEP OBSERVATION	HOLE 5 5 SINGLE CR. 1 GW - 20° HOLE 6 0	COMMITTENCE SLIGHTLY HARD	7,1575

STORMWATER DEEP OBSERVATION HOLE 7 GROUND ELEVATION - 25.7

LEGEND

STANDING WATER BY -100— PISTING CONTOUR AND PROPOSED CONTOUR PROPOSE TESTING PERFORMED BY, CAPUTO AND WICK LTD. DATE OF STURMMATER SOIL TEST - AUGUST 7, 2015

ALLAN L. SHEER COME.

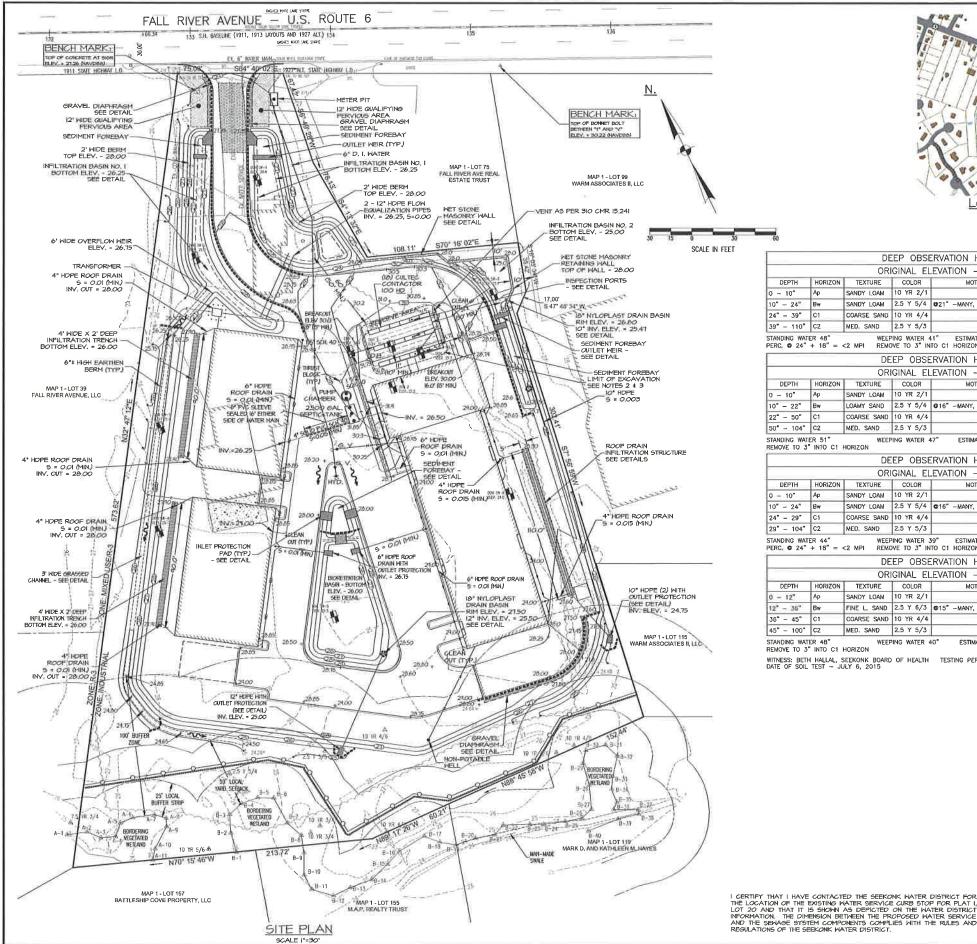
0 - 8" A SANDY LOAM 10 YR 3/2 8" - 18" BW SANDY LOAM 10 YR 4/6 16" - 42" Cd1 F. SANDY LOAM 2.5 Y 7/3 12" - 16" C2 MED SAND 2.5 Y 4/4

DRAINAGE AND GRADING PLAN 1727 FALL RIVER AVENUE PLAT 1 - LOT 20 SEEKONK, MASSACHUSETTS

CAPUTO AND WICK LTD. and Surveying, Civil Eng

ESTIMATED SEASONAL HIGH CW - 37" (ELEY. = 22.6)

CTOBER, 2015 SHEET 2 OF 5





		DE	EP OBSE	ERVATION HOLE 1		
		ORI	GINAL EL	EVATION - 25.32		
DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	STRUCTURE	CONSISTENCE
0 - 10"	Ар	SANDY LOAM	10 YR 2/1		MASSIVE	FRIABLE
10" - 24"	Bw	SANDY LOAM	2.5 Y 5/4	₱21" -MANY, PROM., COARSE	MASSIVE	WEAK FRIABLE
24" - 39"	C1	COARSE SAND	10 YR 4/4		SINGLE GR.	LOOSE
39" - 110"	C2	MED. SAND	2.5 Y 5/3		SINGLE GR.	LOOSE

STANDING WATER 48" WEEPING WATER 41" ESTIMATED SEASONAL HIGH GW - 21" (ELEV. 23,57)
PERC, © 24" + 18" = <2 MPI
REMOVE TO 3" INTO C1 HORIZON

		DE	EP OBSE	RVATION HOLE 2		
		ORI	GINAL EL	EVATION - 25.18		
DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	STRUCTURE	CONSISTENCE
0 - 10"	Ap	SANDY LOAM	10 YR 2/1		MASSIVE	FRIABLE
10" - 22"	Bw	LOAMY SAND	2.5 Y 5/4	@16" -MANY, PROM., COARSE	MASSIVE	WEAK FRIABLE
22" - 50"	C1	COARSE SAND	10 YR 4/4		SINGLE GR.	LOOSE
50" - 104"	C2	MED. SAND	2.5 Y 5/3		SINGLE GR.	LOOSE
STANDING WATE	FR 51"	WEFE	ING WATER 4	7" ESTIMATED SEASONAL I	HIGH GW - 1	6" (FLEV. 23.85

REMOVE TO 3" INTO C1 HORIZON

WEEPING WATER 47" ESTIMATED SEASONAL HIGH GW - 16" (ELEV. 23.85)

		DE	EP OBSE	ERVATION HOLE 3		
		ORI	GINAL EL	EVATION - 25.04		
DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	STRUCTURE	CONSISTENCE
0 - 10"	Ар	SANDY LOAM	10 YR 2/1		MASSIVE	FRIABLE
10" - 24"	Bw	SANDY LOAM	2.5 Y 5/4	@16" -MANY, PROM,, COARSE	MASSIVE	FIRM
24" - 29"	C1	COARSE SAND	10 YR 4/4		SINGLE GR.	LOOSE
29" - 104"	C2	MED. SAND	2.5 Y 5/3		SINGLE GR	LOOSE

STANDING WATER 44" WEEPING WATER 39" ESTIMATED SEASONAL HIGH GW - 16" (ELEV. 23.71)
PERC. © 24" + 18" = <2 MPI REMOVE TO 3" INTO C1 HORIZON

		DE	EP OBSE	RVATION HOLE 4		
		OR	GINAL EL	EVATION - 24.72		,
DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	STRUCTURE	CONSISTENCE
0 - 12"	Ар	SANDY LOAM	10 YR 2/1		MASSIVE	FRIABLE
12" - 36"	Bw	FINE L. SAND	2.5 Y 6/3	©15" -MANY, PROM, COARSE	MASSIVE	FIRM
36" - 45"	C1	COARSE SAND	10 YR 4/4		SINGLE GR.	LOOSE
45" - 100"	C2	MED. SAND	2.5 Y 5/3		SINGLE GR.	LOOSE
STANDING WAT	ER 48"	WEEF	ING WATER	10" ESTIMATED SEASONAL	HIGH GW - 1	5" (ELEV. 23.47)

STANDING WATER 48"
REMOVE TO 3" INTO C1 HORIZON

WITNESS: BETH HALLAL, SEEKONK BOARD OF HEALTH $\,$ TESTING PERFORMED BY: CAPUTO AND WICK LTD. DATE OF SOIL TEST \sim JULY 6, 2015

MOTES:
1. HORK SHALL CONFORM TO THE 310 CMR 19:00 STATE ENVIRONMENTAL CODE - TITLE 5 AND THE RILES AND REGULATIONS OF THE SEEKONS BOARD OF HEALTH,
2. STRIP ALL TOPSOIL, 995001. AND UNITABLE HANTERIAL, TREE ROOTS AND STAMPS AND ANY OTHER IMPERVIOUS OR SPECIFIED SOIL IN THE AREA OF THE SYSTEM AND STREET KORIZONTALLY BEYOND THE STRIP AND THE STRIP AND STREET KORIZONTALLY OF HANTERIAL DECOME ANTERIAL SECONDARY OF HANTERIAL DECOME ANTERIAL SECONDARY AND STREET KORIZONTALLY OF HANTERIAL SECONDARY AND STREET KORIZONTALLY OF HANTERIAL SECONDARY AND STREET KORIZONTALLY OF HANTERIAL SECONDARY AND STREET KORIZONTAL SECONDARY AND STREET KNOWN AND STREET KNOWN

THE SOLIDS EQUAL ONE THIRD THE LIGHD DEPTH. EFFLUENT FILTER MUST BE CLEAVED ANNALLY, AT A HIMINEM.

BREAKOUT ELEVATION = 30.00, NO FINISHED BRADE BELON 30.00 FOR 15 FEET (MINIMAN) FROM THE EDGE OF THE LEACHING AREA.

ALL ENGINES AND PROPOSED MATER MELLS FOAND WITHIN 200° OF PROPOSED SEMASE DISPOSAL.

ALL ENGINES AND PROPOSED MATER MELLS FOAND WITHIN 200° OF PROPOSED SEMASE DISPOSAL.

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ALL ENGINES AND PROPOSED MATER MELLS FOAND WITHIN 200° OF PROPOSED SEMASE DISPOSAL.

THIS PLAN ARE FROM BEST AVAILABLE ENGINES INFORMATION, BUT ARE ONLY TO BE CONSIDERED APPROXIMATE.

MATERIAL AND ESUPPRENT ROM ALTERNATE HAMPACTURERS MAY BE USED, IF EQUAL. APPROXIMATE PROPOSED FOR ALTERNATE EXIMPRENT MOST DE PROVIDED BY THE CONTRACTOR.

FROM DEPTH OF THE CONTRACTOR.

FROM DEPTH OF THE PROPOSED MATER SEMASE PROPOSED FOR ALTERNATE EXIMPRENT MOST DE SUPERVISION THE ACTUAL CONSTRUCTION HORK. APTER EXCAVATING AND PRIOR TO INSTALLING MY INPORTED MATERIAL, CONTACT THE DOADS OF HEALTH ACCOUNT OR A BOTTOM OF EXCAVATION INSPECTION. ATTERNATE PROPOSED FOR PROPOSED MATERIAL CONTRACTION HORK. APTER EXCAVATING AND PRIOR TO INSTALLING MY INPORTED MATERIAL, CONTACT THE BOARD OF HEALTH ACCOUNT OR A BOTTOM OF EXCAVATION INSPECTION. ATTERNATE PROPOSED FOR PROPOSED MATERIAL AND PRIOR TO BACCIFILING, CONTRACT OF PROPERTY OF THE INSTALLATION AND MAINTENANCE OF THE STYPE SOLIT DE TO AND THE LOCAL BOARD OF HEALTH IN REGULATION HOR SOLIT DE SIGNATURE OF THE STYLE TO CONSTRUCT THE SYSTEM IN ACCORDANCE WITH 300 CMR IS DO AND LOCAL BOARD OF HEALTH IN ACCORDANCE MATERIAL BETT RESPONSIBILITY. FOR THE INSTALLATION AND MAINTENANCE OF THE SYSTEM IT SHOULD REVIEW AND APPLY 300 CMR IS DO AND THE LOCAL BOARD OF HEALTH RESULATIONS FOR ADDITIONAL INFORMATION CONCERNING THE CONTRACTION HOR OPERATION OF THE SYSTEM THE INSTALLATION FOR ADDITIONAL THE SYSTEM IN ACCORDANCE MATERIAL THE SIGNATURE DESIGNATION

HEALTH.

HEALTH HER THE REQUIREMENTS OF 310 CMR 15,255(3) MIST BE PLACED ON SCARIFIED, RELATIVELY DRY NATURAL SOIL. THE CONTRACTOR SHALL PROVIDE FOR DEHATERING AS REGUIRED AND ALL HORK SHALL BE PERFORMED INDER DRY CONDITIONS PRE 310 CMR 15,255(3).

20. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING HATER FOR TESTING OF PLAMES, PLAMES AND FLOATS ARE TO BE TESTED TO ENGREE THAT THE PAPPS OFFERATE AT THE PROPER ELEVATIONS.

21. INSTALL MASKETIC TAPE OVER ALL PIPE AND SYSTEM CONFONENTS.

22. THE PROVISED HEALT IS SOLELY FOR PROCESS HATER AND IS NOT FOR POTABLE MATER. MASTE PROCESS HATER HILL DE RECYCLED AND THE EXCESS BE DISPOSED OF IN A HOLDING TANK. FINAL DISPOSAL HILL BE AT AN OFF SITE LEGAL DISPOSAL PROLITED.

DESIGN DATA

• DAILY SEMAGE FLOM

OFFICE SPACE = 15 GALLONS PER 1,000 S.F.F.

BUILDING NO, 1 - OFFICE SPACE 3,000 S.F.

BUILDING NO, 2 - OFFICE SPACE 1,000 S.F.

BUILDING NO, 3 - OFFICE SPACE 1,000 S.F.

TOTAL OFFICE SPACE FLOM = 6,200 S.F. X 15 GPD/1,000 S.F. = 465 GPD

Warehousefactory, No cafetteria Building No. 1 - 5 Morkers, Building No. 2 - 4 Morkers Building No. 3 - 4 Morkers Building No. 3 - 4 Workers Total Marehouse Flom = 13 Morkers X 15 GPD/Morker = 145 GPD Total Daily Flom 600 Gallons Per Day

SEPTIC TANK REQUIREMENTS

ITO TAME RESUMENTENTS

VOLUME FIRST COMPARTMENT (OR TANK) = 2 x DAILY FLOW = 1,320 GAL,

VOLUME SECOND COMPARTMENT (OR TANK) = 1 x DAILY FLOW = 660 GAL,

TOTAL MINIMY VOLUME = 1,920 GALLONS

USE TWO COMPARTMENT 2,500 GALLON TANK

. LEACHING AREA REQUIREMENTS

LEACHING AREA REQUIREMENTS
PERCOLATION RATE = Q MINITES PER INCH
DESIGN FOR 5 MINITES PER INCH - SOIL TEXTURE CLASS |
EFFLURIT LOADING RATE = 0.74 GAL, PER SIR,
USE CULTEC IOO HO CHAMBERS IN TRENCH CONFIGURATION
LEACHING AREA = 6.1 S, F, L, E,
USE 9 TRENCHES 455 L, F,
TOTAL LEACHING AREA = 3 X 455 L, F, X 6.7 S, F, L, F, = 415 S, F,
TOTAL LEACHING CAPACITY = 415 S, F, X 0.74 GAL/SF = 667 GPD > 660 GPD

DESCRIPTION	ELEVATION
INVERT AT FOUNDATION	VARIES .
INVERT IN - SEPTIC TANK	25.25
INVERTIOUT - SEPTIG TANK	25.00
INVERT INLET PUMP CHAMBER	24.90
INVERT IN DIST, BOX	29,72
INVERT OUT DIST, BOX	29.55
BREAKOUT ELEVATION	30.00
INVERT INTO CHAMBERS	2950
ELEY, TOP OF CHAMBERS	30.00
ELEY, BOTTOM OF CHAMBERS	29.00
EST, SEASONAL HIGH GM	23.65

LEGEND

PREPARED FOR: PMI REALTY, LLC 1460 FALL RIVER AVE. SEEKONK, MA 02771

SEWAGE DISPOSAL SYSTEM PLAN

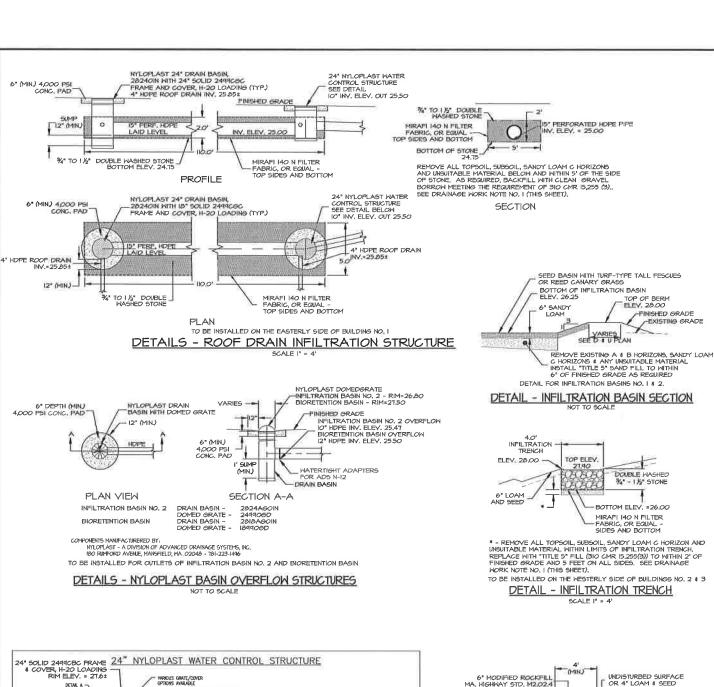
1727 FALL RIVER AVENUE PLAT 1 - LOT 20 SEEKONK. MASSACHUSETTS

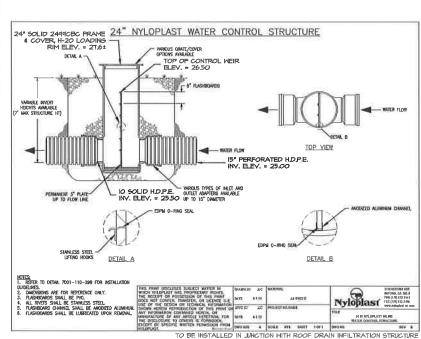


CAPUTO AND WICK LTD.

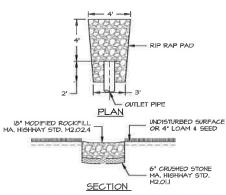
Land Surveying, Civil Engineering, Environmental Services, Traffic Engine and Construction Engineering 1150 PAWTUCKET AVE BUNIFORD, B.L 02916-1897

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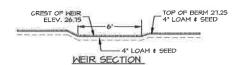


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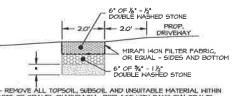


TO BE INSTALLED AT THE ROOF DRAIN INLETS LOCATED AT NORTHEASTERLY AND MORTHMESTERLY CORNERS OF THE BIORETENTION BASIN, ALONG THE SOUTHERLY EDGE OF THE PROJECT AT THE END OF THE 12 * OVERLOW PIPE FROM THE BIORETENTION BASIN, AND THE END OF THE TWO IO? OVERLOW PIPE FROM THE ROOF DRAIN INFILTRATION STRUCTURE AND INFILTRATION BASIN NO., 2.

DETAIL - PIPE END OUTLET PROTECTION

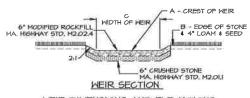


DETAIL - INFILTRATION BASIN NO. I OUTLET WEIR SCALE | = 4'



LIMITS OF GRAVEL DIAPPRAGM. REPLACE WITH BANK RUN GRAVEL CONTAINING LITTLE TO NO FINES TO WITHIN 12" OF FINISHED GRADE, SEE PLANS FOR LOCATIONS AND FINISHED GRADES

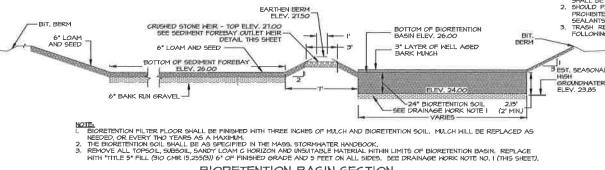
GRAVEL DIAPHRAGM DETAIL NOT TO SCALE



WEIR DIMENSIONS AND ELEVATIONS INFILTRATION INFILTRATION INFILTRATION BASIN NO. 1 (NW) BASIN NO. 1 (NE) BASIN NO. 2 27.25 3.0 FT. 27.25 2.5 FT.

TO BE CONSTRUCTED BETWEEN SEDIMENT FOREBAY AND INFILTRATION

DETAIL - SEDIMENT FOREBAY OUTLET WEIR



6" CRUSHED STONE

SECTION

SCALE I* = 4

TO BE INSTALLED AT INLETS TO SEDIMENT FOREBAY DETAIL - INLET PROTECTION PAD

BIORETENTION BASIN SECTION

DRAINAGE WORK:

- STRIP ALL TOPSOIL, SUBSOIL AND UNSUITABLE MATERIAL, INCLUDING SANDY LOAM OR FINER TEXTURED C HORIZONS, TREE ROOTS AND STUMPS AND ANY OTHER IMPERVIOUS OR SPECIFIED SOIL IN THE AREA OF THE DRAINAGE IMPLITATION BASINS, BURGETENTION BASINS, ROOF DRAINAGE IMPLITATION TRUCTURE AND IMPLITATION TRENCHES AND 5 FEET HORIZONTALLY BEYOND THEIR EDGES IN ALL DIRECTIONS. ALSO, STRIP MATERIAL VERTICALLY 3° MINIMUM INTO THE NATURALLY OCCURRING
- DELIVIDUAL INCINE L'OPES IN ALL DIRECTIONS. ALSO, STRIP MATERIAL VERTICALLY 3° MINIMUM INTO THE NATURALLY OCCURRING PERVIOUS MATERIAL. REPLACE WITH GRANULAR FILL MEETING THE LATEST SPECIFICATIONS OF 3IO CMR 15.255(3). THE DRAINAGE SYSTEM SHALL BE INSTALLED BY STARTING AT THE DONNERADIENT END AND MORKING UPGRADIENT. RIP-RAP SHALL BE INSTALLED AT PIPE INLETS AND OUTLETS IMMEDIATELY AFTER INSTALLING PIPE, STAKED STRAM BALES SHALL BE INSTALLED AT THE OUTFALL OF ALL BASING AND SWALES AND SHALL REMAIN IN PLACE UNTIL ALL TRIBUTARY AREAS ARE STABILIZED.
- RUNOFF SHALL NOT BE ALLOWED TO ENTER PIPES FROM UN-STABILIZED SURFACES.
- TRENCH EXCAVATIONS SHALL BE LIMITED TO THE MINIMM LENGTH REQUIRED FOR DAILY PIPE INSTALLATION, ALL TRENCHES SHALL BE BACK FILLED AS SOON AS POSSIBLE. THE UPSTREAM ENDS OF PIPES SHALL BE CLOSED NIGHTLY WITH PLYMOOD
- . IS IMPORTANT THAT BINDER COURSE BE INSTALLED IN ROADWAYS AS SOON AS FEASIBLE AS THESE AREAS WILL FUNCTION AS A CONDUIT FOR RUNOFF. FRAME & GRATE/COVER SETS MUST BE INSTALLED TO THE ELEVATION OF THE TOP OF THE BINDEY COURSE. A SECOND ADJUSTMENT WILL BE NECESSARY PRIOR TO INSTALLING THE SURFACE COURSE.

DRAINAGE SYSTEM STORMWATER BEST MANAGEMENT PRACTICES

OPERATION & MAINTENANCE NOTES

- THE SPECIFIED STORMMATER MANAGEMENT SYSTEMS RELY UPON PROPER MONITORING AND MAINTENANCE TO OPERATE AS DESIGNED AND INTENDED. A PROGRAM OF MONITORING AND MAINTENANCE MUST BE ON-GOING THROUGHOUT THE LIFE AND USE OF THE SITE AND IS THE OWNERS RESPONSIBILITY. THE ACTIVITIES DESCRIBED BELOW ARE TO BE INITIATED AFFER COMPLETION OF THE SITE, EXCEPT AS SPECIFICALLY
- NOTED.

 NOTED.

 NOTED. 2, UPON COMPLETION OF PROJECT CONSTRUCTION, AND PRIOR TO VACATING THE SITE, THE CONTRACTOR WILL CONDUCT A FINAL INSPECTION OF ALL DRAINAGE SYSTEM COMPONENTS, CLEAN THE SYSTEM AND ASSOCIATED STRUCTURES, REPAIR ANY VEGETATIVE SOIL EROSION AND SEDIMENT CONTROL MEASURES (SEEDING, PLANTINGS, ETC.) HERRE REQUIRED, AND REPAIR (OR REMOVE MIERE APPROPRIATE) TEMPORARY SOIL EROSION AND SEDIMENT CONTROL DEVICES (COMPOST FILTER SOCK, STRAMBALES, CHECK DAMS, STONE BERMS ETC.). AFTER FERMANENT SOIL STABILIZATION HAS OCCURRED AND BEEN ACCEPTED BY THE OWNER, ALL TEMPORARY CONTROL MEASURES SHALL BE REMOVED.

 9. AFTER SITE CONSTRUCTION MORK IS COMPLETE AND HAS BEEN ACCEPTED BY THE OWNER, MAINTENANCE OF THE DRAINAGE SYSTEM MILL BECOME THE RESPONSIBILITY OF THE OWNER. THE MONITORING AND MAINTENANCE OF ALL STORMWATER FACILITIES SHALL BE ADDRESSED AS FOLLOWS.

THE DRAINAGE SYSTEMS ARE TO BE MONITORED BY THE OWNER, WHO SHALL DIRECT AN INDIVIDUAL TO ACT AS THE SYSTEMS MANAGER. THIS INDIVIDUAL SHALL KEEP A LOG OF ALL INSPECTIONS, OBSERVATIONS, AND MAINTENANCE ACTIVITIES. THE LOG SHALL BE MADE AVAILABLE TO DEP AND/OR THE SEEKONK CONSERVATION COMMISSION WITHIN TEN (IO) DAYS OF ANY WRITTEN REQUEST BY THE AGENCY.

THE OPERATION AND MAINTENANCE SCHEDULE SHALL CONSIST OF THE FOLLOWING.

- IN THE DRIVENAYS, WALKNAYS AND PARKING AREAS SHOULD BE SHEPT CLEAN ON A QUARTERLY BASIS TO REMOVE CONTAMINANTS AND SOLIF RIPES. THE METHOD OF SHEEPING SHALL BE BY EITHER HIGH EFFICIENCY VACAUM SHEEPER OR REGENERATIVE AIR SHEEPER. IT IS PARTICULARLY IMPORTANT TO SCHEDULE SPRING SHEEPING TO REMOVE RESIDUAL SAND RESULTING FROM HINTER SHOWA AND ICE REMOVAL OFFERTATIONS.

 2. INSPECT INTLOPLAST BASING AT LEAST FOUR TIMES PER YEAR, AND REMOVE SEDIMENT, LEAVES, FLOATABLES, AND DEBRIS AS NECESSARY, BASIN SEDIMENT SHALL BE REMOVED WHEN THE DEPOSIT IS GREATER THAN OR EQUAL TO ONE HALF THE DEPTH FROM THE BOTTOM OF THE SUMP TO THE INVERT OF THE LONEST PIPE IN THE BASIN. IT IS IMPORTANT THAT THE SUMPS BE PROPERLY MAINTAINED TO PREVENT DISCHARSE OF PINES INTO THE STORMHANTER SYSTEMS.

 3. INSPECT INTERCONNECTION PIPING ON AN ANNUAL BASIS, AND REMOVE ALL FINES AND/OR OTHER CONTAMINANTS. A LATE SPRING OR EARLY SUMMER INSPECTION SCHEDULE IS CONSIDERED PREFERABLE.

 4. ANY BROKEN OR DAMASED PIPES SHALL BE REPAIRED PROMPTLY UPON DISCOVERY, IN KIND.

 5. ALL BROKEN, LEAKING, OR OTHERWISE DAMASED STRICTURES SHALL BE REPAIRED PROMPTLY UPON DISCOVERY. DRAIN BASIN GRATES OR MAINFOLE COVERS SHALL BE REPLACED WITH SIMILAR WEIGHT AND LOADING-CHARACTERISTIC REPLACEMENT PARTS. THE REPLIACEMENT PARTS FOR ANY DEPORTS. THE CHOIGINAL DESIGN SPECIFICATIONS.

- REPLACEMENT PARTS. THE REPLACEMENT PARTS FOR ANY PIPE OR DRAINAGE STRUCTURE SHALL MATCH THE ORIGINAL DESIGN SPECIFICATIONS.

 6. THE INFILITATION TRENCHES SHALL BE INSPECTED AT LEAST ONCE PER YEAR AND CLEANED IF NECESSARY. STONE CLOSGED MITH SEDIMENT SHALL BE REMOVED AND REPLACED MITH MASHED STONE OF SIMILAR SIZE.

 7. THE INFILITATION STRUCTURE SHALL BE INSPECTED AT LEAST ONCE PER YEAR AND CLEANED IF NECESSARY. ACCUMULATION OF SEDIMENT IN PIPES SHALL BE INSPECTED AT LEAST ONCE PER YEAR AND CLEANED IF NECESSARY. ACCUMULATION OF SEDIMENT FORESHALD BE ILISHED MITH A JETVAC, OR SIMILAR DEVICE.

 6. INSPECT THE SEDIMENT FOREBAYS ON A QUARTERLY BASIS, REMOVE ANY SEDIMENT, LEAVES, AND DEBRIS AS NECESSARY.

 9. INSPECT THE INFILITATION BASINS AFTER EVERY MAJOR STORM DURING THE PIPEST THERE MOTHER OF OPERATION AND THICE PER YEAR THEREASTER. A LATE SPRING OR EARLY SUMMER INSPECTION SCHEDULE IS CONSIDERED PREFERABLE. MOW THE SIDE SLOPES, RAKE BOTTOM BED, AND REMOVE TRASH AND DEBRIS THICE A YEAR. EXAMINE OUTLET STRUCTURE FOR EVIDENCE OF CLOSGING ROW.

 INSPECT THE BIORETENTION AREA THICE A YEAR. A LATE SPRING OR EARLY SUMMER INSPECTION SCHEDULE IS CONSIDERED PREFERABLE. EXAMINE OUTLET STRUCTURE FOR EVIDENCE OF CLOSGING. MOW EMBANKMENT SIDE SLOPES THICE A YEAR. REMOVE SEDIMENT EVERY FIVEY YEARS, OR AS REQUIRED, REPLACE MOOD CHIPS WHEN THEY BECOME DETERIORATED OR EVERY TIREE YEARS MINIMUM.

 11. THE INFILITATION BASINS AND BIORETENTION AREA SHALL BE INSPECTED AT LEAST THICE PER YEAR. TILLING OF THE BASINSS FLOOR SHOULD BE DONE WHEN AN OBVIOUS LOSS OF INFILITATION COCURS, AND PARTICULARLY IF STANDING NATER OF PRESENT FOR MORE THAN A HOUSE AFTER A RAINFEIT OF RESENT FOR MORE THAN A HOUSE AFTER A RAINFEIT OF RESTORD OF MILLIAR SPECIFIED IN THE BOTTON AS AND BOTTON HAVE A DEED TO SEPTION AS AND BIORETENTION BASIN SHALL EVENT. AFTER REMOVE AND EARLY OF ACCUMENT AND ANY MILCH BED, TILLING OF BIORETENTION BASIN, RESEED MITH THE SEED MIXTURE SPECIFIED IN THE INFILITATION BASIN DETAIL.

 12. IF TILLING THE BOTTOM OF BIORETENTION BASIN, RES

- 12. IF TILLING THE BOTTOM OF BIORETENTION BASIN FAILS TO IMPROVE INFILTRATION, REMOVE AT LEAST FOUR INCHES OF SOIL FROM BELION THE MULCH BED AND REPLACE WITH BIORETENTION SOIL. MULCH THE DISTURBED ARRAS AS DEPICITED IN THE DETAILS AND MAINTAIN WITH STABILIZED.

 3. IF TILLING THE BOTTOM OF INFILTRATION BASING FAILS TO IMPROVE INFILTRATION, REMOVE AT LEAST FOUR INCHES OF SOIL FROM THE BOTTOM OF THE BASIN AND REPLACE WITH LOAMY SAND TEXTURED SOIL. RESEED WITH THE SEED MIXTURE SPECIFIED IN THE INFILTRATION BASIN DETAIL.

 14. INSPECT GRAVEL DIAPHRAGMS AT LEAST ONCE A YEAR. REMOVE ALL COARSE SEDIMENT AND DEBRIS. IF NECESSARY, REMOVE THE TOP 12" OF STONE, REPLACE THE FILTER FARRIC AND REPLACE REFILL WITH CLEAN, MASHED STONE.

 15. IF UPON INSPECTION, EVIDENCE OF HYDROCARBONS (OIL AND GASOLINE) SHOULD BE OBSERVED, THEN STEPS SHALL BE INITIATED IMMEDIATELY TO REMOVE AND LAWFULLY DISPOSE OF THE MATERIAL. THE FULL EXTENT OF THE MATERIAL SHALL BE ASSESSED, AND THE MATERIAL SHALL BE REMOVED FROM ALL AFFECTED AREAS, AT NO TIME SHALL HYDROCARBON-BASED MATERIALS BE ALLOHED TO REMAIN IN ANY DRAINAGE STRUCTURE OR STORMMATER MANAGEMENT FEATURE. PAGE 5 OF 5 PROVIDES PIXTHER INFORMATION REGARDING SPILL PREVENTION AND AN OVERVIEW OF RESPONSE AND REPORTING REGAINEMENTS IN THE EVENT THAT A SPILL SHOULD OCCUR.

 16. DURING SNON-REMOVAL OPERATIONS IN DRIVENATS AND PARKING AREAS, CARE SHALL BE TAKEN TO CLEAR THE DRAINAGE EXACTORS SHOULD BE USED TO THE GREATEST PRACTICAL EXTENT.

 17. THE TRASH DUMPSTER TO BE LOCATED ON STIE SHALL REMAIN FITTED WITH A PRECIPITATION-TIGHT COVER AND SHALL BE EMPILED ROUTINELY, SUCH THAT OVERFILOR HAD REPARADING PROPRISED FOR ANY INTRODUCTION OR DISPOSED OF SHALL PROVIDED AND LEARAGE ASPECTATIONS SHALL REPAIN STORED WITHING PROVINGE AND REPAIR OF STEINS, STORMWATER FEATURES, OR ON ANY ORDINACE SYSTEMS, STORMWATER FEATURES, OR ON ANY ORDINACE SYSTEMS, STO

NOWATER

- I. GRASSED SLOPES SHALL REMAIN WELL STABILIZED WITH CONTINUOUS GRASS COVER OR OTHER DESIGNATED SURFACE TREATHENT TO PREVENT EROSION AND CONSEQUENT SEDIMENT CONTRIBUTIONS TO DRAINAGE STRUCTURES. EXPOSED AREAS SHALL DE RESSEDED IMMEDIATELY TO STABILIZE EXPOSED SOILS.

 2. SHOULD PAVEMENT SEAL COATING AND CRACK REPAIR BE REQUIRED, THE USE OF COAL-TAR BASED SEALANTS SHALL BE PROHIBITED (DUE TO HIGH CONTENT OF POLYCYCLIC AROMATIC HYDROCARBONS (PAHS)). THE USE OF ASPHALT-BASED SEALANTS ARE ACCEPTABLE.

 3. TRASH RECEPTACLES SHALL BE WELL SITED DISTANT FROM DRAIN INLETS AND SHALL BE EMPTIED REGULARLY AND FOLLOWING EYENTS.



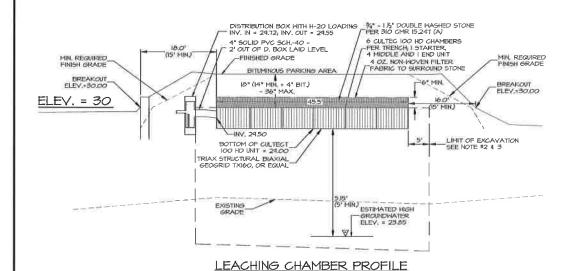
DRAINAGE & BMP DETAILS 1727 FALL RIVER AVENUE PLAT 1 - LOT 20 SEEKONK, MASSACHUSETTS

CAPUTO AND WICK LTD.

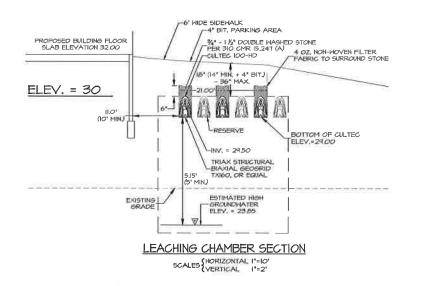
nmental Services, Traffic Engi and Construction Engineering

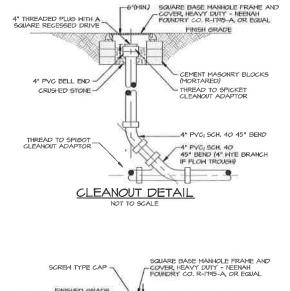
Tel.: 401-411-4110

CT08ER, 201



SCALES SHORIZONTAL I"=10"





FINISHED GRADE GEMENT MASONRY BLOCKS (MORTARED) EXTEND PIPE TO INTERFACE OF CHAMBER AND NATURALLY OXCURRING SOIL— OR 301 CMR 15,255 FILL SOIL ABSORPTION SYSTEM

INSPECTION PORT DETAIL

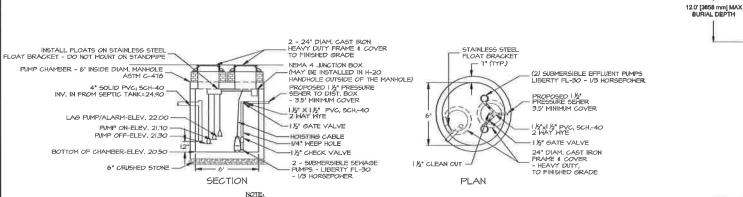
24° DIAM, CAST IRON FRAME & COVER .- HEAVY DUTY TO FINISHED GRADE

4' 50LID P. V. C. 5CH. 40 INVERT IN = 25.25

4" SOLID PYC SCH, 40; INLET TEE

6" (TYP) -

6" CRUSHED STONE -



NOTE: FLOATS ARE TO BE SET TO SPECIFIED ELEVATIONS. PUMP CHAMBER DETAIL SCALE | = 4'

PUMPING SYSTEM SPECIFICATIONS

2 - LIBERTY FL-30 HORSEPOWER - 1/5
SOLIDS HANDLING CAPACITY - 3/4 INCH
ELECTRICAL - IIS VOLTS* 10.5 AMPS SINGLE PHASE

CONTROL PANEL
LIBERTY MODEL AE2IL=3 ENCLOSURE - NEMA I
ELECTRICAL - 120 VOLTS* 0-14.9 AMPS SINGLE PHASE
HIGH LEVEL ALARM - VISUAL AND AUDIO

FLOATS

COMPATIBLE WITH CONTROLS MERCURY FREE

PUMP CHAMBER

6' DIAM, MANHOLE - ASTM C-478

■ ELECTRICAL - 230 VOLT SYSTEM MAY BE USED IF AVAILABLE

PUMPING NOTES

- ECUIPMENT FROM OTHER MANUFACTURER'S MAY BE USED IF EQUAL. APPROVAL FOR ALTERNATE ECUIPMENT REQUIRED FROM ENGINEER PRIOR TO CONSTRUCTION, FULL SPECIFICATIONS FOR ALTERNATE EQUIPMENT MUST BE PROVIDED BY CONTRACTOR. CONTROL PANEL AND ALARM TO BE MOUNTED INSIDE BUILDING IN A CONSPICUOUS
- LOCATION.

 3. JUNCTION BOX IN PUMP CHAMBER OR IN SEPARATE HANDHOLE TO HAVE SHUT-OFF SHITCH.

CONTACTOR IOOHD HEAVY DUTY SEPTIC APPLICATION TRENCH TRAFFIC APPLICATION DETAIL NOT TO SCALE

FOR SYSTEM SPECIFICATIONS SEE 310 CMR 15:249: DESIGN CRITERIA FOR SOIL ABSORPTION SYSTEM

BUOYANCY CALCULATIONS

ESTIMATED SEASONAL HIGH GROUNDWATER = ELEVATION 23.65

4 OZ. NON-WOVEN FILTER FABRIC TO SURROUND STONE

3/4- 1 1/6" DOUBLE WASHED STONE PER 310 CMR 15.247(a)

PAVEMENT OR FINISHED GRADE

SEPTIC TANK
USE CONCRETE PRODDUCTS 2,500 GALLON TWO COMPARTMENT SEPTIC TANK
BASE ELEVATION = 19,42
VOLUME OF MATER DISPLACED = 13,0' X 7.0' X (23,25 - 19,42) = 403 C.F.
MEIGHT OF WATER DISPLACED = 403 X 62,4 LB6/C.F. = 25,155 POUNDS
MEIGHT OF TANK > MEIGHT OF WATER DISPLACED
NO BUOYANCY COMPENSATION REQUIRED,

PUMP CHAMBER
USE SCITUATE PRECAST 6' DIAM MANHOLE
BASE ELEVATION = 14,83
VOLUME OF MATER DISPLACED = 11 X T.167² /4 X (23,85 - 14,83) = 162 C.F.
NEIGHT OF MATER DISPLACED = 162 X 62.4 LB5/C.F. = 10,119 POUNDS
NEIGHT OF MANHOLE

REIGHT OF MANHOLE $(\|(n \times 7.167^2/4) \times 61 + ((n \times 7.167^2/4) \times 0.671^2) + ((n \times 7.167^2/4) \times 0.671^2) \times 150 \text{ LBS./C.F.} = 16.926 \text{ LBS.} \times |0.119 \text{ LBS.}$ NO BUOYANCY COMPENSATION REQUIRED

95% COMPACTED FILL

8.0" [203 mm] MIN. FOR PAVED 10.0" [254 mm] MIN. FOR UNPAVED

6.0" [152 mm] MIN.

12.5" [318 mm]

THE INSTALLER IS RESPONSIBLE FOR ENSURING THE REQUIRED BEARING CAPACITY OF SUB-GRADE SOILS

TRIAX STRUCTURAL BIAXIAL GEOGRID TX160 (OR EQUAL)

TO BE PLACED DIRECTLY BENEATH CHAMBERS



SEWAGE DISPOSAL SYSTEM DETAILS 1727 FALL RIVER AVENUE PLAT 1 - LOT 20 SEEKONK, MASSACHUSETTS

CTOBER, 201

5 OF 5

SHEET

FINISHED GRADE ELEV.-30.001

INV OUT = 25.00

LOW LINE

TANK WIDTH - T'-O"

2,500 GALLON SEPTIC TANK

SCALE |*=4

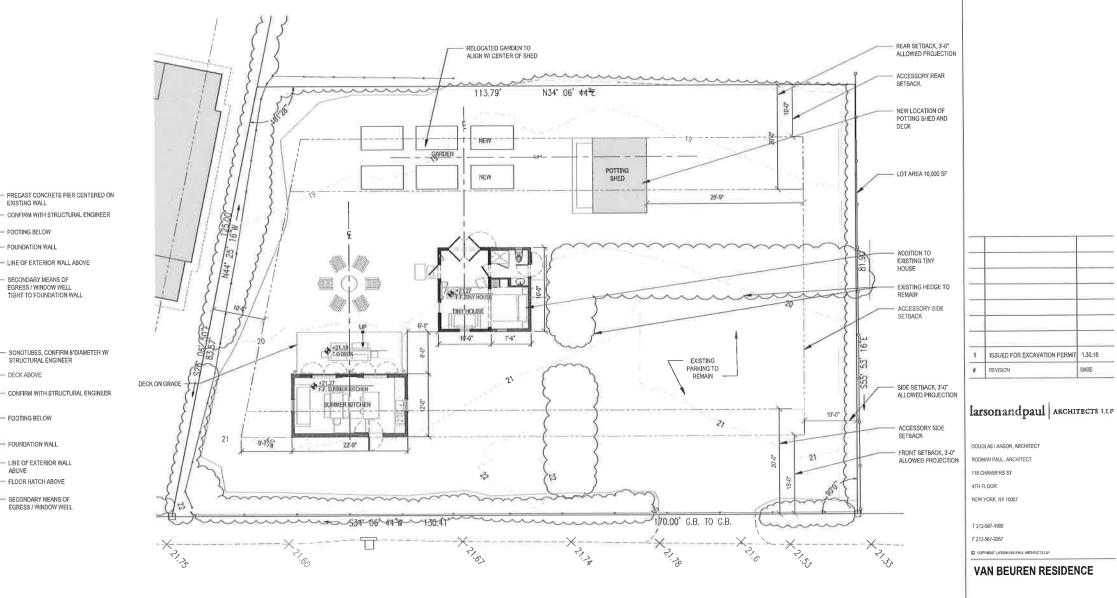
ZABEL A-100, 8 X 26 EFFLUENT FILTER, OR EQUAL

CAPUTO AND WICK LTD.

and Construction Enginee

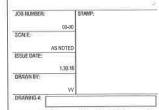
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COGGESHALL AVENUE

SITE PLAN - PROPOSED 231 COGGESHALL AV



SP:100.0

FOUNDATION PLAN SCALE: 1/8"=1'-0"

+13,38 T.O. SLAB

SUMMER KITCHEN

113.79

FOOTING BELOW FOUNDATION WALL

FOOTING BELOW

FOUNDATION WALL

LINE OF EXTERIOR WALL ABOVE FLOOR HATCH ABOVE

SECONDARY MEANS OF EGRESS / WINDOW WELL

SECONDARY MEANS OF EGRESS / WINDOW WELL TIGHT TO FOUNDATION WALL

SITE PLAN SCALE: 1/8"=1'-0"



Planning Board

100 PECK STREET SEEKONK, MASSACHUSETTS 02771 1-508-336-2961

To: The Planning Board

From: John J. Aubin III, Town Planner

Date: February 9, 2016

APPROVAL NOT REQUIRED REVIEW (ANR) Edward G. Turnbull Jr. – Plat 16, Lot 28 – 242 Lincoln Street

Existing Conditions:

The subject lot, AP 16, Lot 28, is comprised of 3.6 acres of land in an R-2 Zoning District having a minimum required 22,500 sf of area and 120' of frontage per lot in accordance with Section 5 of the Seekonk Zoning By-Laws. The property is currently developed with a single family dwelling and two (2) sheds. Currently lot 28 has approximately 508 feet of contiguous frontage along Lincoln Street. Attached please find a copy of the Town's online GIS aerial of the subject lot and surrounding area.

Proposed Lot Amendments and plan references:

The submitted plan creates one new lot for development resulting in lot configurations as follows:

Lot 1: 120,091 square feet of land area and having 332 feet of contiguous frontage on Lincoln Street.

Lot 2: 33,167 square feet of land area and 175' of contiguous frontage on Lincoln Street.

Recommendation:

Staff recommends endorsement of the submitted APPROVAL NOT REQUIRED PLAN OF LAND prepared for Edward G. Turnbull Jr and Whitney Turnbull dated January 18, 2016 as it meets the exemption clause within the definition of a subdivision in the Rules and Regulations Governing the Subdivision of Land for changing the size of lots in such a manner so as to not leave any lot affected without the proper frontage.

	72 III	
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